The Cytochalasans: Potent Fungal Natural Products with Applications from Bench to Bedside

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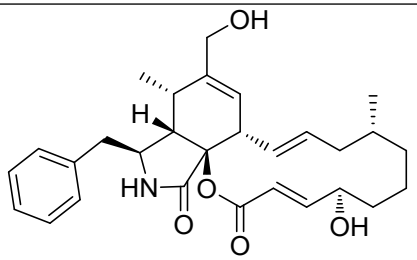
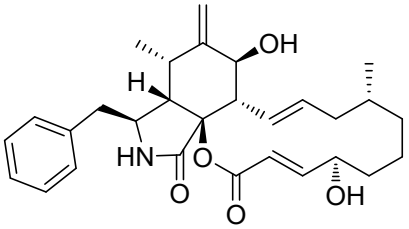
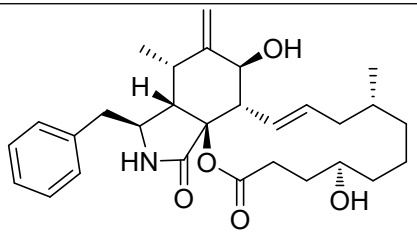
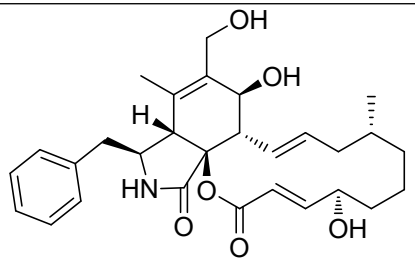
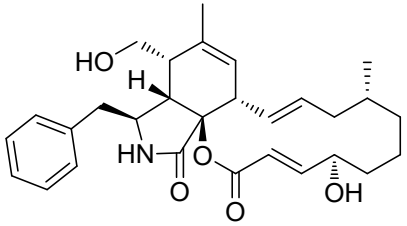
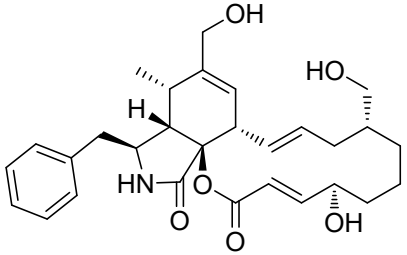
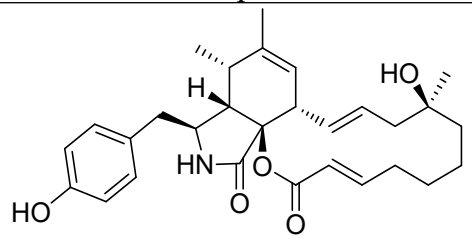
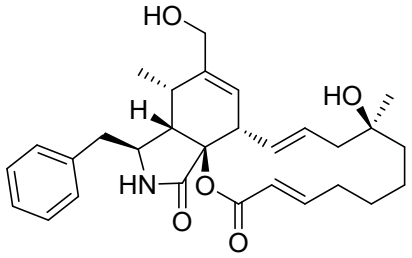
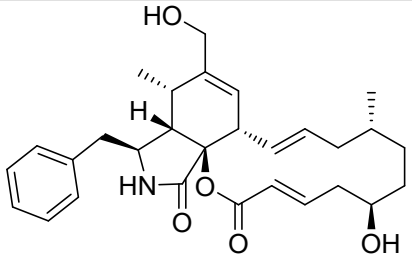
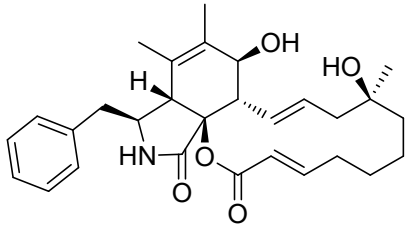
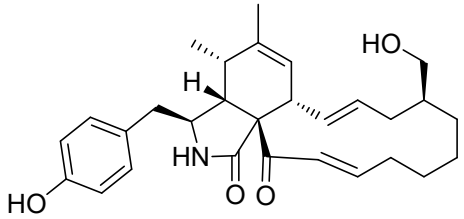
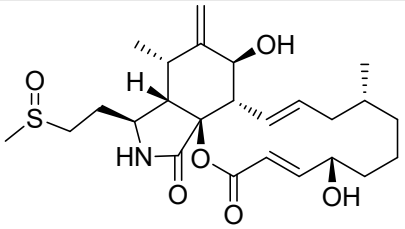
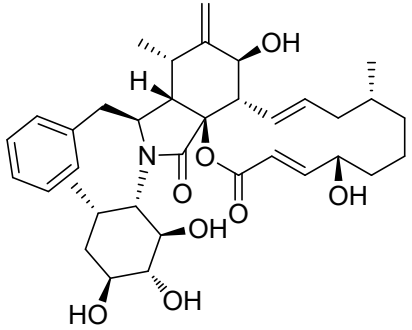
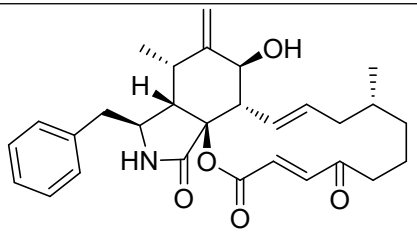
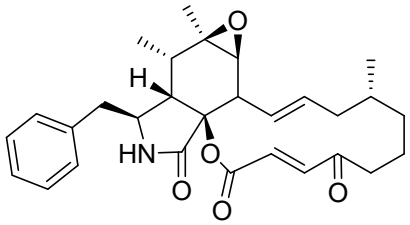
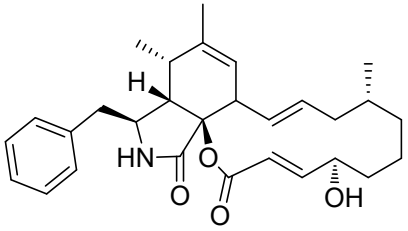
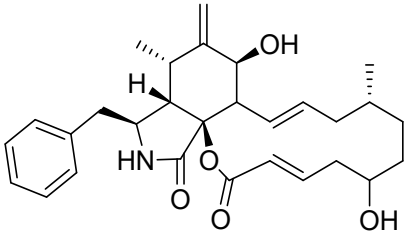
Table 1: List of cytochalasans reported and their Derivatives, exclusively isolated from Fungi.

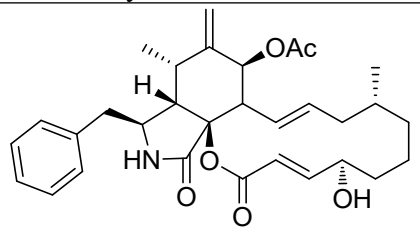
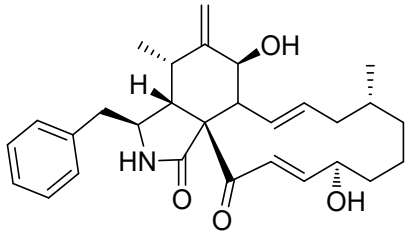
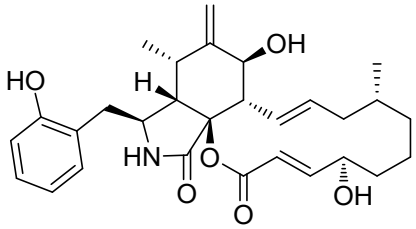
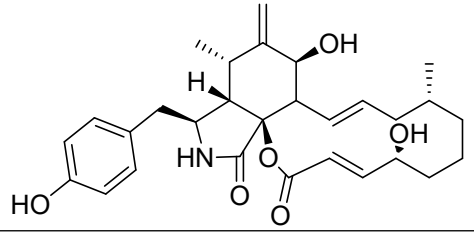
No.	Structure MF Name	Source	Bioactivity	Reference
1	 $C_{29}H_{37}NO_5$ Cytochalasin Z2	*Aspergillus* sp. LE2, *Phoma exigua* var. *heteromorpha*, *Phoma exigua* var. *exigua*, *Pyrenophora semeniperda*, *Perenniporia subacida*, *Preussia similis* DSM 32328	Phytotoxic, Actin distripuation (incomplete at 5 µg/mL)	1–6
2	 $C_{29}H_{37}NO_5$ Cytochalasin B	*Aspergillus* sp. LE2, *Boeremia exigua* (Desm.), *Phoma exigua* var. *heteromorpha*, *Phoma exigua* var. *exigua,* *Pyrenophora semeniperda,* *Sparticola triseptate*, *Perenniporia subacida*, *Preussia similis* DSM 32328, *Xylaria* sp	Phytotoxic, cytotoxic, nematicidal and antimicrobial, Actin distripuation (completely at 1 µg/mL)	1–9
3	 $C_{29}H_{39}NO_5$ Dihydrocytochalasin B	*Aspergillus* sp. LE2, *Perenniporia subacida*	Not determined for any relevant biological activity	1,5

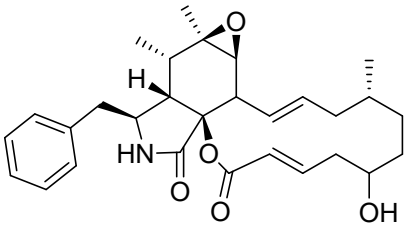
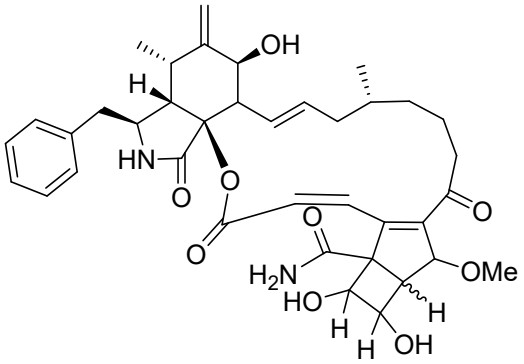
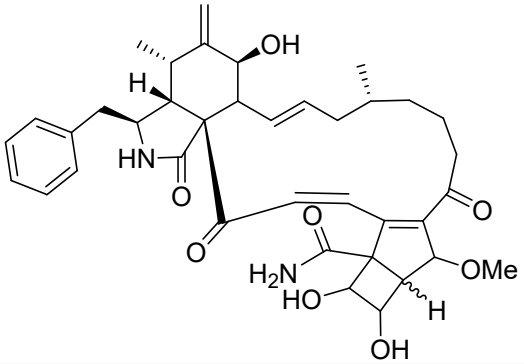
4	 $C_{29}H_{37}NO_6$ Perenniporin A	*Perenniporia subacida*	Displayed cytotoxicity and no anti-inflammatory	[5]
5	 $C_{29}H_{37}NO_5$ Perenniporin B	*Perenniporia subacida*	Displayed neither cytotoxicity nor atnti-inflammatory	[5]
6	 $C_{29}H_{37}NO_6$ Perenniporin C	*Perenniporia subacida*	Cytotoxicity, anti-inflammatory	[5]
7		*Boeremia exigua* (Desm.)	Displayed anti-inflammatory and no cytotoxicity	[7]

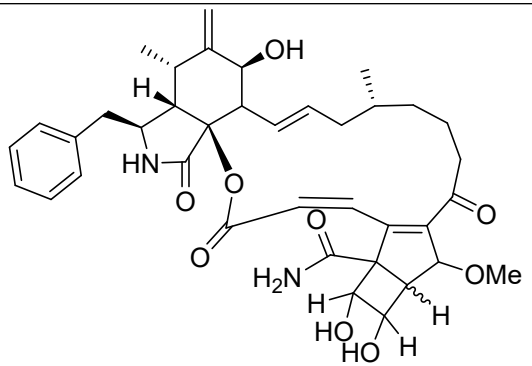
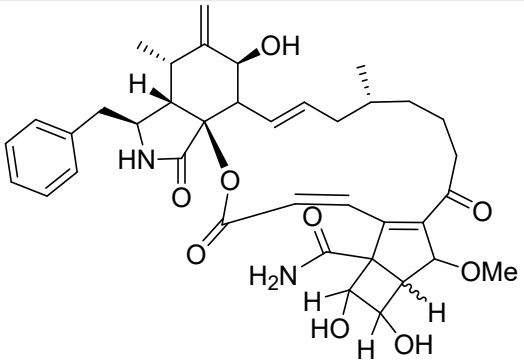
	$C_{29}H_{37}NO_5$ Boerechalasin A			
8	 $C_{29}H_{37}NO_5$ Boerechalasin B	*Boeremia exigua* (Desm.)	Displayed neither cytotoxicity nor anti-inflammatory	[7]
9	 $C_{29}H_{37}NO_5$ Boerechalasin C	*Boeremia exigua* (Desm.)	Displayed neither cytotoxicity nor anti-inflammatory	[7]
10	 $C_{29}H_{37}NO_5$ Boerechalasin D	*Boeremia exigua* (Desm.)	Displayed neither cytotoxicity nor anti-inflammatory	[7]

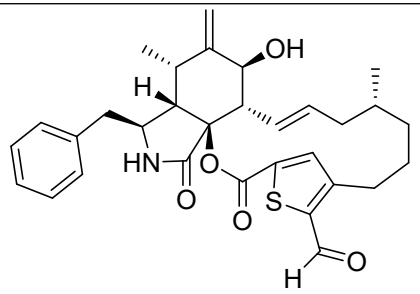
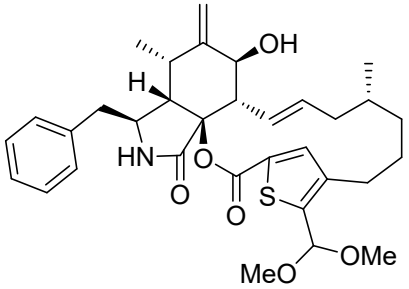
11	 $C_{29}H_{37}NO_4$ Boerechalasin E	*Boeremia exigua* (Desm.)	Displayed anti-inflammatory and no cytotoxicity	[7]
12	 $C_{25}H_{37}NO_6S$ Boerechalasin F	*Boeremia exigua* (Desm.)	Displayed neither cytotoxicity nor anti-inflammatory	[7]
13	 $C_{36}H_{49}NO_8$ Boerechalasin G	*Boeremia exigua* (Desm.)	Displayed neither cytotoxicity nor anti-inflammatory	[7]

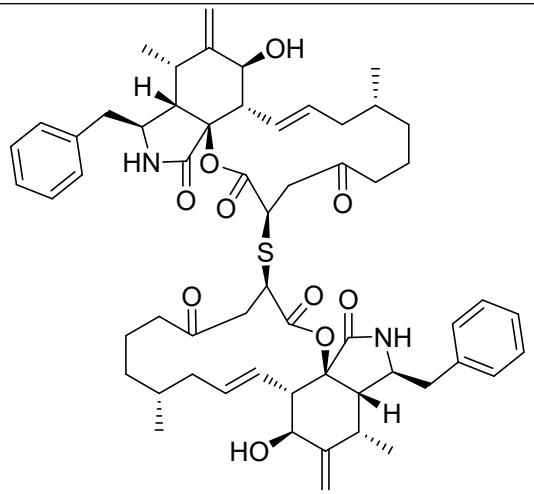
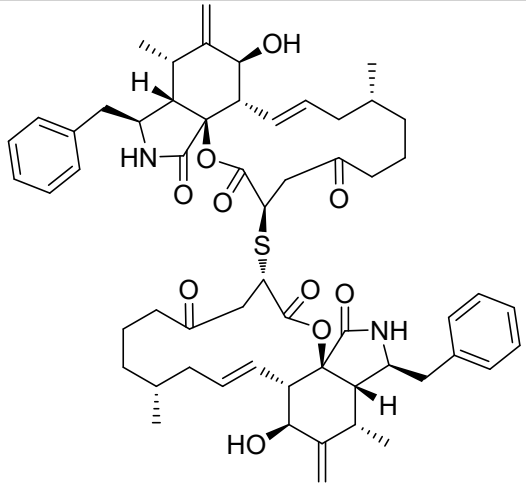
14	 $C_{29}H_{35}NO_5$ Cytochalasin A	*Aspergillus* sp. LE2, *Phoma exigua* var. *heteromorpha*	Nematicidal and antimicrobial	1,2,9
15	 $C_{29}H_{35}NO_5$ Cytochalasin F	*Phoma exigua* var. *heteromorpha*, *Phoma exigua* var. *exigua*, *Pyrenophora semeniperda, Preussia similis* DSM 32328	Phytotoxic, Actin distripuation (incomplete at 5 µg/mL)	2–4,6
16	 $C_{29}H_{37}NO_4$ Cytochalasin T	*Phoma exigua* var. *heteromorpha*, *Pyrenophora semeniperda*	Phytotoxic	2,4
17	 $C_{29}H_{37}NO_5$	*Phoma exigua* var. *heteromorpha*, *Phoma exigua* var. *exigua*, *Pyrenophora semeniperda*	Phytotoxic	2–4

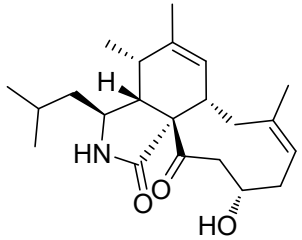
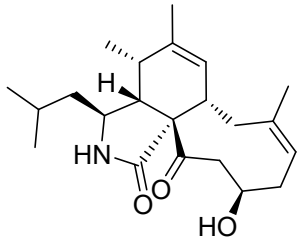
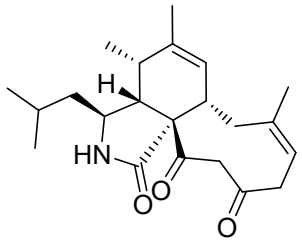
	Cytochalasin Z3			
18	 $C_{31}H_{39}NO_6$ 7-*O*-acetylcytochalasin B	*Phoma exigua* var. *heteromorpha*	Not determined for any relevant biological activity	[2]
19	 $C_{29}H_{37}NO_4$ Deoxaphomin	*Phoma exigua* var. *heteromorpha*, *Phoma exigua* var. *exigua*, *Pyrenophora semeniperda, Preussia similis* DSM 32328	Phytotoxic, Actin distripuation (Completely at 1 µg/mL)	[2–4,6]
20	 $C_{24}H_{37}NO_4$ Cytochalasin Z4	*Aspergillus* sp. LE2, *Phoma exigua* var. *heteromorpha*	Displayed no phytotoxicity	[1,2]
21		*Phoma exigua* var. *heteromorpha*	Displayed no phytotoxicity	[2]

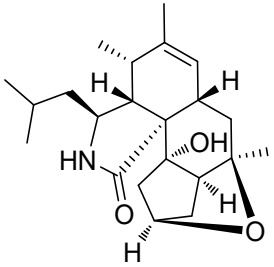
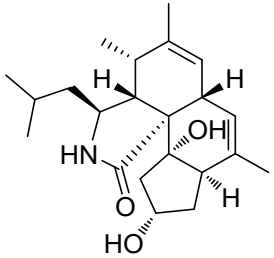
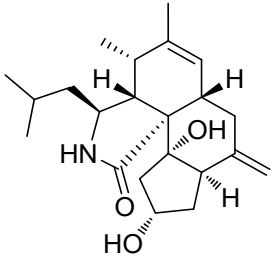
	$C_{29}H_{37}NO_6$ Cytochalasin Z5			
22	 $C_{29}H_{37}NO_5$ Cytochalasin Z6	*Phoma exigua* var. *heteromorpha*	Phytotoxic	[2]
23	 $C_{38}H_{46}N_2O_9$ Phomachalasin A	*Phoma exigua var. exigua*	Displayed neither phytotoxicity nor antifungal	[10]
24		*Phoma exigua var. exigua*	Displayed neither phytotoxicity nor antifungal	[10]

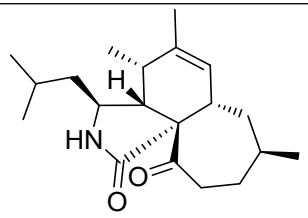
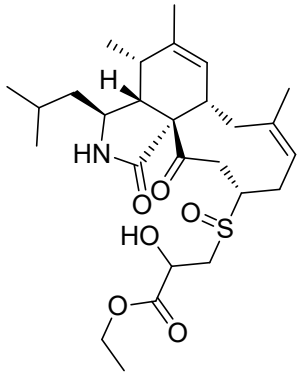
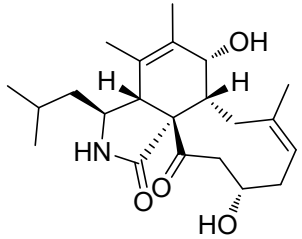
	$C_{38}H_{46}N_2O_8$ Phomachalasin B			
25	 $C_{38}H_{46}N_2O_9$ Phomachalasin C	*Phoma exigua var. exigua*	Displayed neither phytotoxicity nor antifungal	10
26	 $C_{38}H_{46}N_2O_9$ Phomachalasin D	*Phoma exigua var. exigua*	Displayed neither phytotoxicity nor antifungal	10

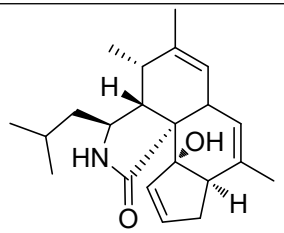
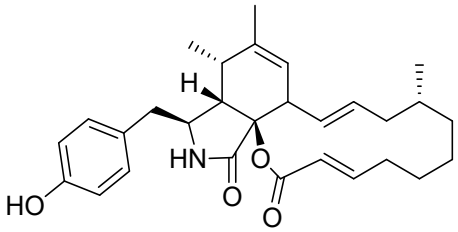
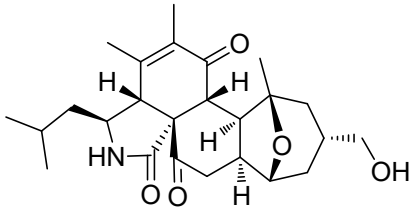
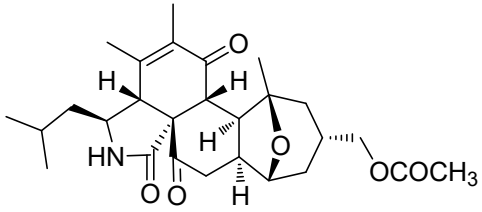
27	 $C_{31}H_{35}NO_5S$ Thiocytochalasin A	*Phoma multirostrata* XJ-2-1	Cytotoxic	[11]
28	 $C_{33}H_{41}NO_6S$ Thiocytochalasin B	*Phoma multirostrata* XJ-2-1	Cytotoxic	[11]

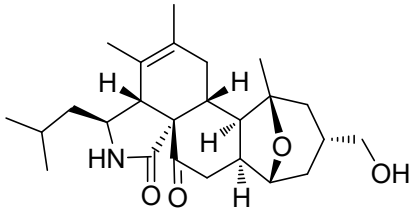
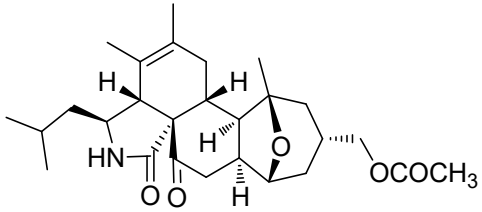
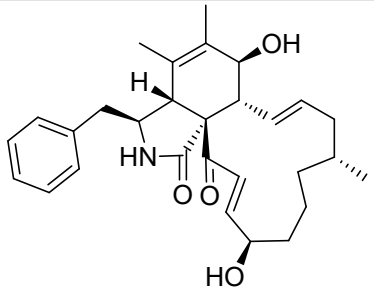
29	 $C_{58}H_{72}N_2O_{10}S$ Thiocytochalasin C	*Phoma multirostrata* XJ-2-1	Cytotoxic	[11]
30	 $C_{58}H_{72}N_2O_{10}S_2$ Thiocytochalasin D	*Phoma multirostrata* XJ-2-1	Cytotoxic	[11]

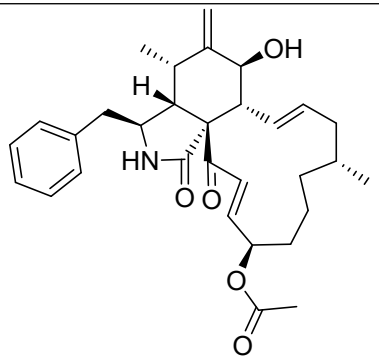
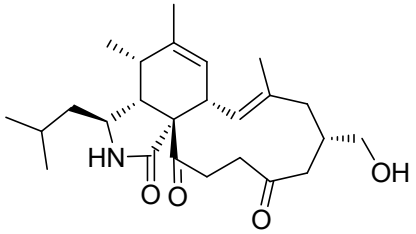
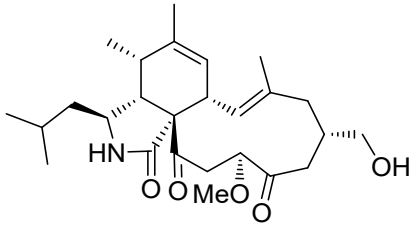
31	 $C_{22}H_{33}NO_3$ Periconiasin A	*Periconia* sp	Cytotoxic	[12]
32	 $C_{22}H_{33}NO_3$ Periconiasin B	*Periconia* sp	Cytotoxic	[12]
33	 $C_{22}H_{31}NO_3$ Periconiasin C	*Periconia* sp	Displayed no cytotoxicity	[12]

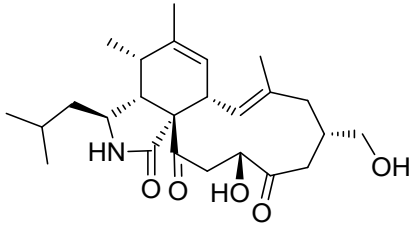
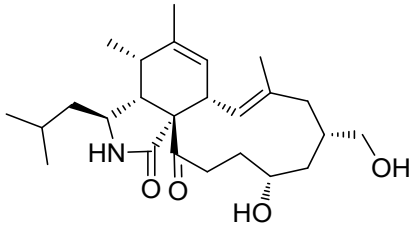
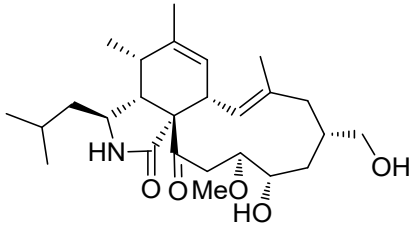
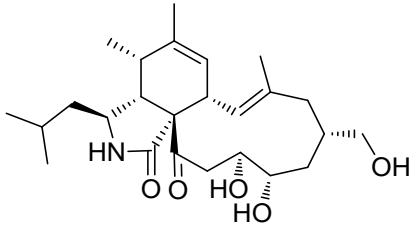
34	 $C_{22}H_{33}NO_3$ Periconiasin D	*Periconia* sp	Displayed no cytotoxicity, anti-inflammatory and anti-HIV	13
35	 $C_{22}H_{33}NO_3$ Periconiasin E	*Periconia* sp	Displayed no cytotoxicity, anti-inflammatory and anti-HIV	13
36	 $C_{22}H_{33}NO_3$ Periconiasin F	*Periconia* sp	Displayed anti-HIV, no cytotoxicity, and anti-inflammatory	13

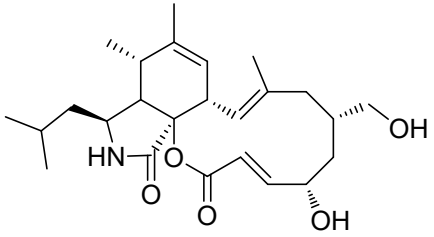
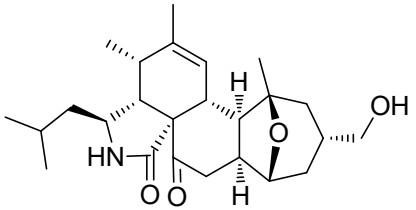
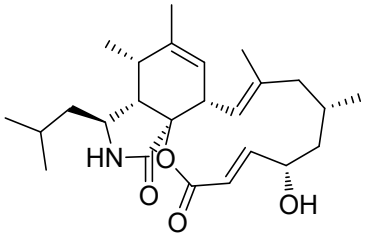
37	 $C_{20}H_{31}NO_2$ Periconiasin G	*Periconia* sp	Displayed anti-HIV, and no cytotoxicity	14
38	 $C_{27}H_{41}NO_6S$ Periconiasin H	*Periconia* sp	Displayed neither anti-HIV, nor cytotoxicity	14
39	 $C_{22}H_{33}NO_4$ Periconiasin I	*Periconia sp*	Displayed cytotoxicity and no anti-HIV activity	15

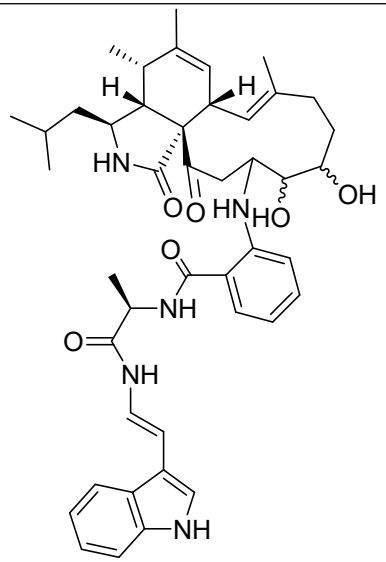
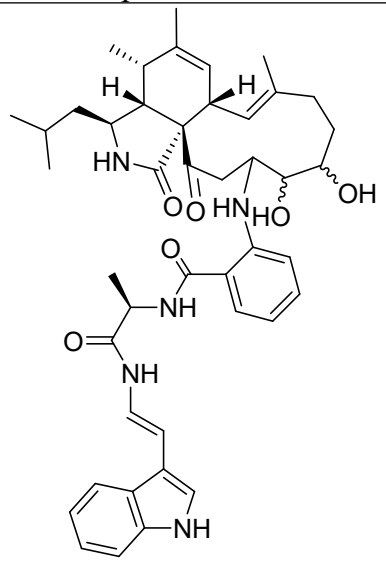
40	 $C_{22}H_{31}NO_2$ Periconiasin J	*Periconia sp*	Displayed anti-HIV, and no cytotoxicity	15
41	 $C_{29}H_{37}NO_4$ Cytochalasin Z1	*Pyrenophora semeniperda*	Phytotoxic	4
42	 $C_{25}H_{35}NO_5$ Pycnidiophorone A	*Pycnidiophora dispersa*	Cytotoxic	16
43	 $C_{27}H_{37}NO_6$ Pycnidiophorone B	*Pycnidiophora dispersa*	Cytotoxic	16

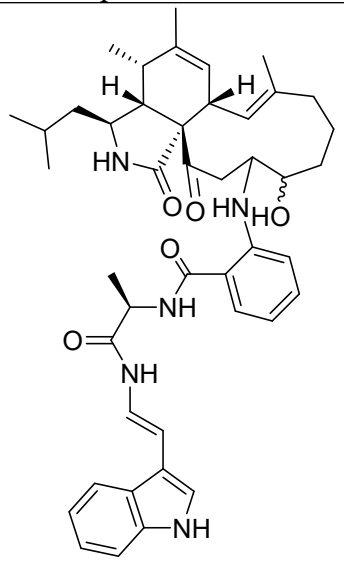
44	 $C_{25}H_{37}NO_4$ Pycnidiophorone C	*Pycnidiophora dispersa*	Cytotoxic	[16]
45	 $C_{27}H_{37}NO_5$ Pycnidiophorone D	*Pycnidiophora dispersa*	Cytotoxic	[16]
46	 $C_{29}H_{37}NO_4$ Deoxaphomin B	*Sparticola triseptate*	Cytotoxic, Antiproliferative, Protein inhibitor	[8]

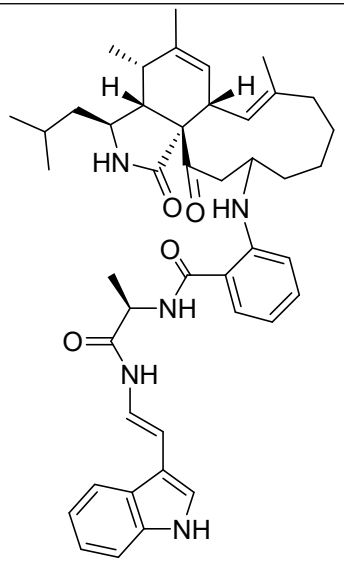
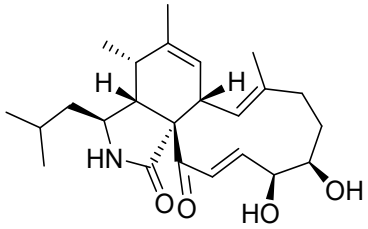
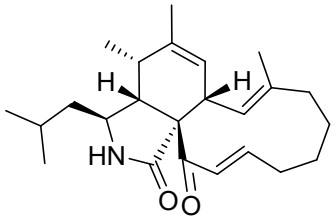
47	 $C_{31}H_{39}NO_5$ Triseptatin	*Sparticola triseptate*	Cytotoxic, Antiproliferative, Protein inhibitor	[8]
48	 $C_{25}H_{37}NO_4$ 18-Oxo-19,20-dihydrophomacin C	*Westerdykella dispersa*	Displayed no cytotoxicity and antibacterial	[17]
49	 $C_{26}H_{39}NO_5$ 18-Oxo-19-methoxy-19,20-dihydrophomacin C	*Westerdykella dispersa*	Displayed no cytotoxicity and antibacterial	[17]

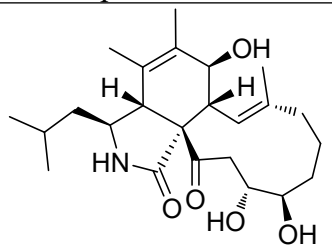
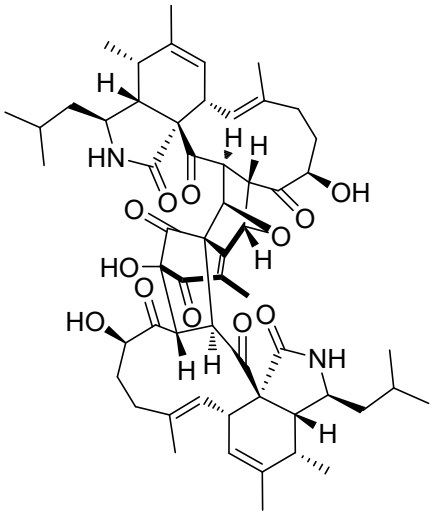
50	 $C_{25}H_{37}NO_5$ 18-Oxo-19-hydroxyl-19,20-dihydrophomacin C	*Westerdykella dispersa*	Displayed no cytotoxicity and antibacterial	[17]
51	 $C_{25}H_{39}NO_4$ 19,20-Dihydrophomacin C	*Westerdykella dispersa*	Displayed cytotoxicity and no antibacterial	[17]
52	 $C_{26}H_{41}NO_5$ 19-Methoxy-19,20-dihydrophomacin C	*Westerdykella dispersa*	Displayed cytotoxicity and no antibacterial	[17]
53	 $C_{25}H_{39}NO_5$	*Westerdykella dispersa*, *Westerdykella nigra*	Displayed cytotoxicity, enzyme inhibition effect and no antibacterial	[17,18]

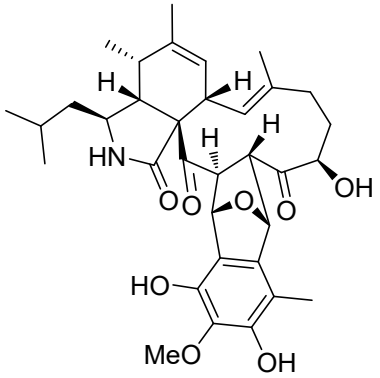
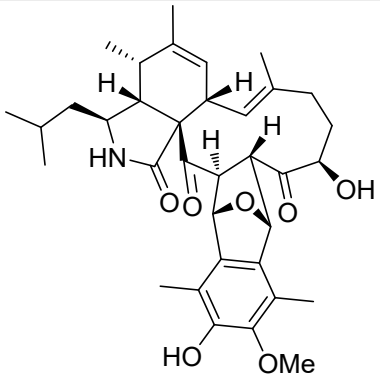
	19-Hydroxyl-19,20- dihydrophomacin C			
54	 $C_{25}H_{37}NO_5$ Phomacin B	*Westerdykella dispersa*, *Westerdykella nigra*	Displayed cytotoxicity, enzyme inhibition effect and no antibacterial	17,18
55	 $C_{25}H_{37}NO_4$ 16-Hydroxymethylaspergillin PZ	*Westerdykella dispersa*, *Westerdykella nigra*	Antibacterial and enzyme inhibition effect	18,19
56	 $C_{25}H_{37}NO_4$ 16α-methylaspochalasin J	*Westerdykella dispersa*	Antibacterial	19

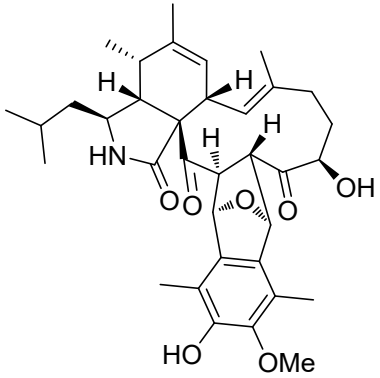
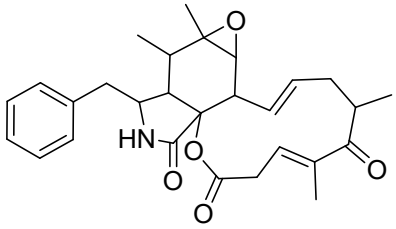
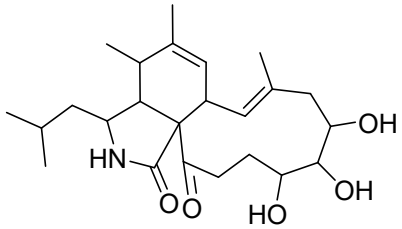
57	 $C_{44}H_{55}N_5O_6$ Aspochalamin A	*Aspergillus niveus* LU 9575	Cytotoxic, antibacterial	[20,21]
58		*Aspergillus niveus* LU 9575	Cytotoxic, antibacterial	[20,21]

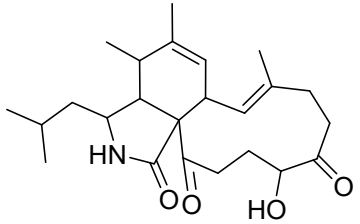
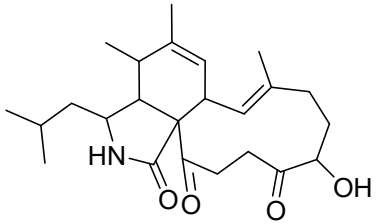
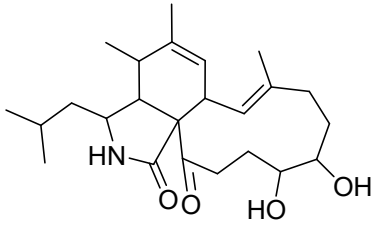
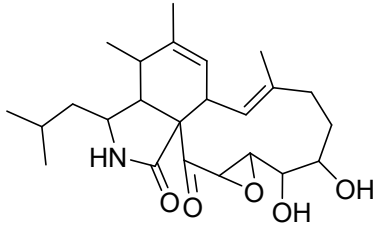
	$C_{44}H_{55}N_5O_6$ Aspochalamin B			
59	 $C_{44}H_{55}N_5O_5$ Aspochalamin C	*Aspergillus niveus* LU 9575	Cytotoxic, antibacterial	[20,21]

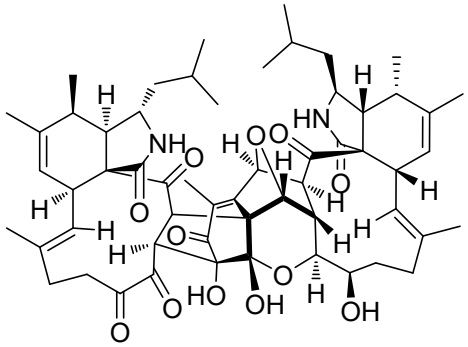
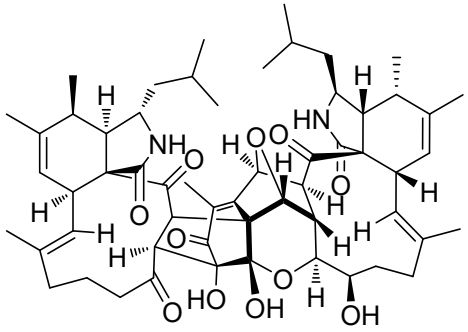
60	 $C_{44}H_{55}N_5O_4$ Aspochalamin D	*Aspergillus niveus* LU 9575	Cytotoxic, antibacterial	[20,21]
61	 $C_{24}H_{35}NO_4$ Aspochalasin D	*Aspergillus niveus* LU 9575, *Aspergillus micronesiensis* PG-1, *Trichoderma gamsii*, *Spicaria elegans*, *Aspergillus flavipes* (KIB-536)	Displayed cytotoxicity, and no antibacterial	[20–27]
62	 $C_{24}H_{35}NO_2$	*Aspergillus niveus* LU 9575	Cytotoxic, antibacterial	[20,21]

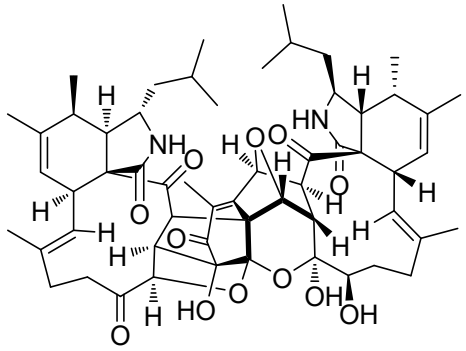
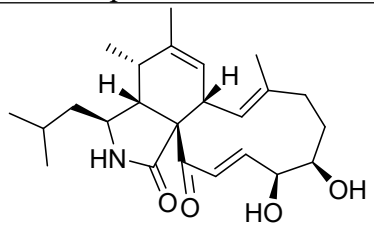
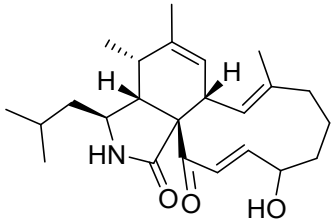
	Aspochalasin Z			
63	 $C_{24}H_{37}NO_5$ Aspochalasin U	*Aspergillus* sp	Cytotoxic	[28]
64	 $C_{57}H_{72}N_2O_{12}$ Asperchalasine A	*Aspergillus flavipes* (507), *Aspergillus micronesiensis* PG-1	Cytotoxic	[22,29]

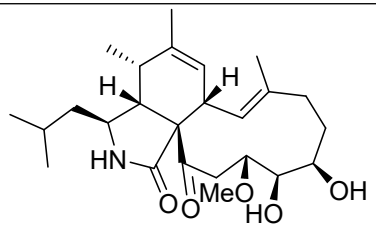
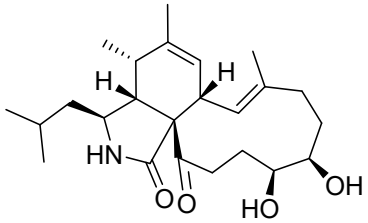
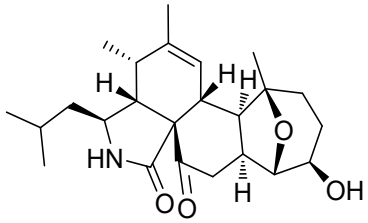
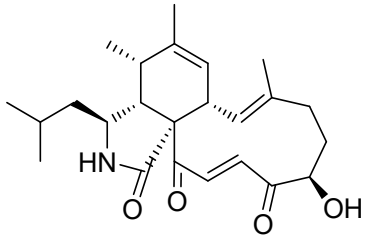
65	 $C_{34}H_{43}NO_8$ Asperchalasine B	*Aspergillus flavipes* (507)	Cytotoxic	[29]
66	 $C_{35}H_{45}NO_7$ Asperchalasine C	*Aspergillus flavipes* (507)	Cytotoxic	[29]

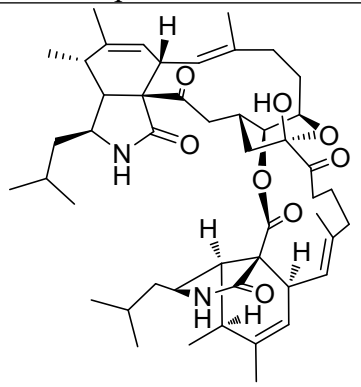
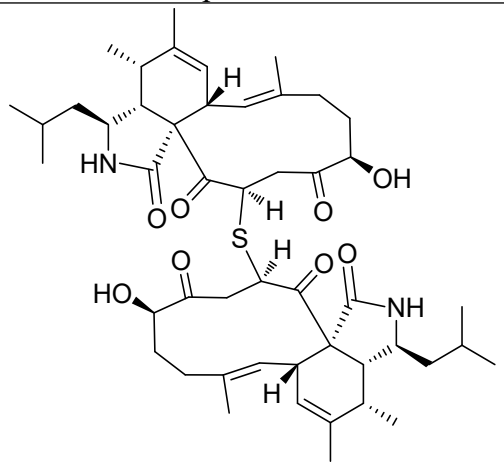
67	 $C_{35}H_{45}NO_7$ Asperchalasine D	*Aspergillus flavipes* (507)	Cytotoxic	[29]
68	 $C_{28}H_{33}NO_5$ Rosellichalasin	*Aspergillus flavipes*, *Arthrinium arundinis* ZSDS1-F3, *Arthrinium arundinis* DJ-13	Displayed neither cytotoxicity nor antituberculosis	[30–32]
69	 $C_{24}H_{37}NO_5$ Aspochalasin E	*Aspergillus flavipes*, *Aspergillus flavipes* CNL-338	Not determined for any relevant biological activity	[30,33]

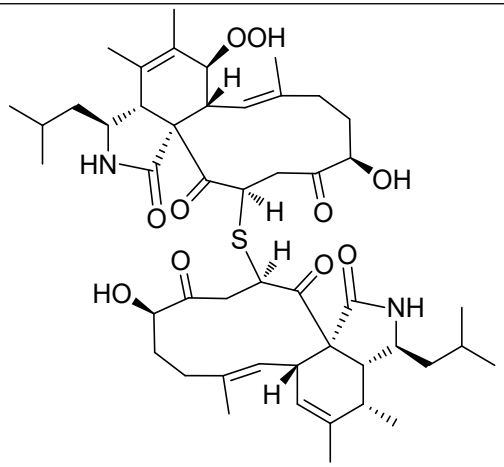
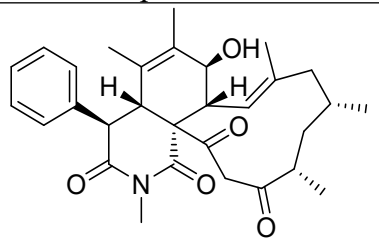
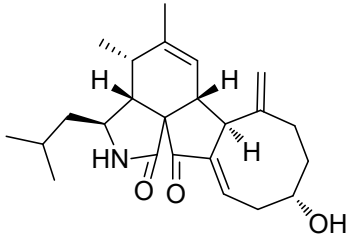
70	 $C_{24}H_{35}NO_4$ Aspochalasin M	*Aspergillus flavipes*, *Aspergillus flavipes* CNL-338, *Trichoderma gamsii, Spicaria elegans*	Cytotoxicity	23,26,30,33
71	 $C_{24}H_{35}NO_4$ Aspochalasin P	*Aspergillus flavipes*, *Trichoderma gamsii*, *Spicaria elegans*	Displayed no cytotoxicity	23,26,30
72	 $C_{24}H_{37}NO_4$ 19,20-Dihydro-aspochalasin D	*Aspergillus flavipes*	Not determined for any relevant biological activity	30
73	 $C_{24}H_{35}NO_5$	*Aspergillus flavipes*	Not determined for any relevant biological activity	30

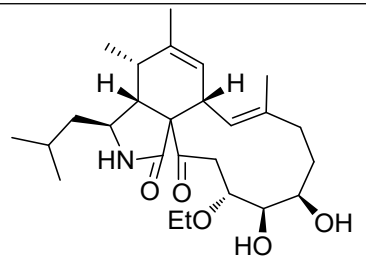
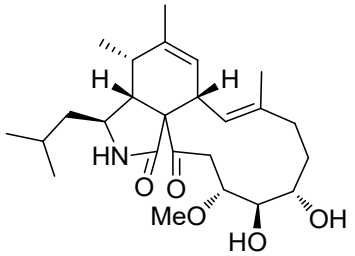
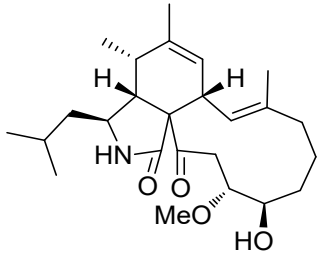
	Aspochalasin H			
74	 $C_{57}H_{72}N_2O_{12}$ Amichalasine A	*Aspergillus micronesiensis* PG-1	Cytotoxic	[22]
75	 $C_{57}H_{74}N_2O_{11}$ Amichalasine B	*Aspergillus micronesiensis* PG-1	Cytotoxic	[22]

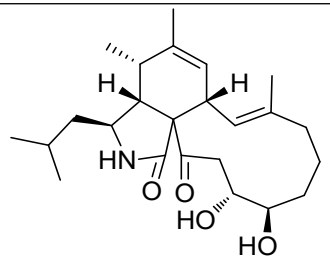
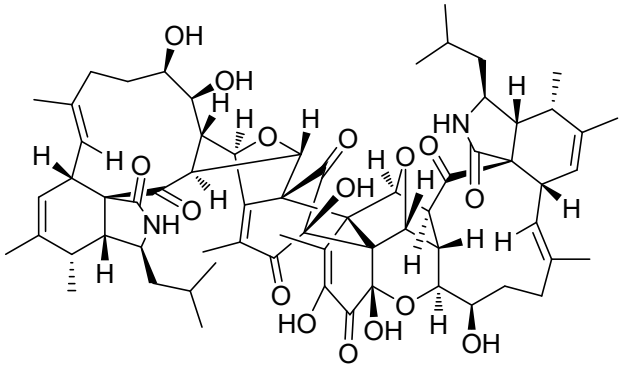
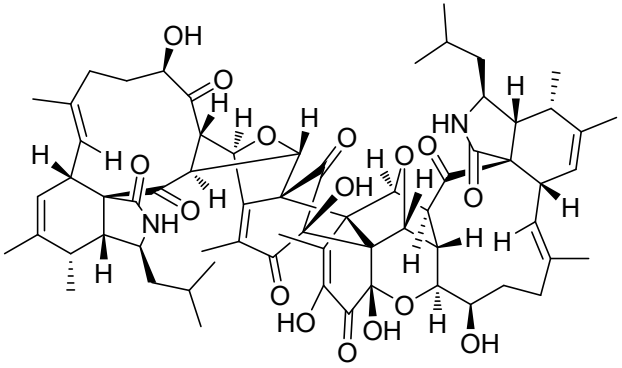
76	 $C_{57}H_{72}N_2O_{12}$ Asperchalasine C	*Aspergillus micronesiensis* PG-1	Cytotoxic	[22]
77	 $C_{24}H_{35}NO_4$ Aspochalasin C	*Aspergillus flavipes* CNL-338	Not determined for any relevant biological activity	[33]
78	 $C_{24}H_{35}NO_3$ TMC-169	*Aspergillus flavipes* CNL-338	Not determined for any relevant biological activity	[33]

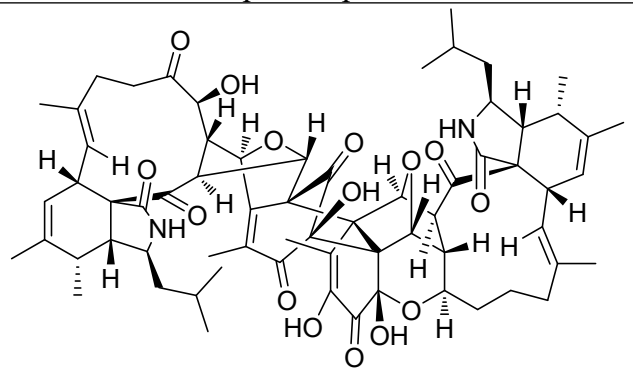
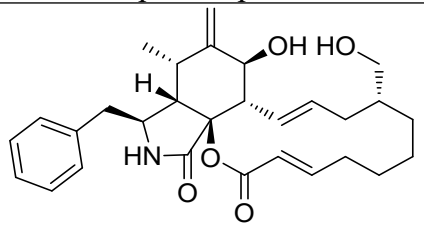
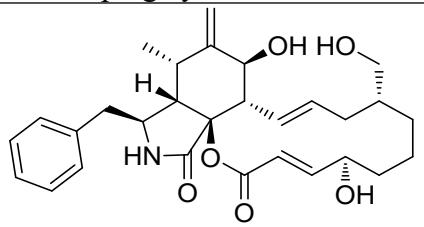
79	 $C_{25}H_{39}NO_5$ Flavichalasine F	*Aspergillus flavipes* CNL-338	Not determined for any relevant biological activity	[33]
80	 $C_{24}H_{37}NO_4$ Flavichalasine G	*Aspergillus flavipes* CNL-338	Not determined for any relevant biological activity	[33]
81	 $C_{24}H_{35}NO_4$ Aspergillin PZ	*Aspergillus flavipes* CNL-338, *Trichoderma gamsii*	Displayed no cytotoxicity	[33,34]
82	 $C_{24}H_{33}NO_4$	*Spicaria elegans*, *Aspergillus flavipes* (KIB-536)	Cytotoxicity	[26,27]

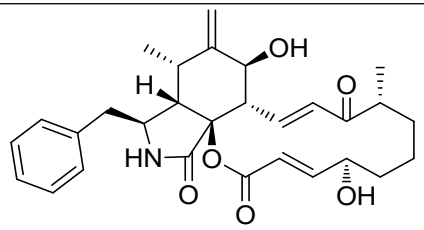
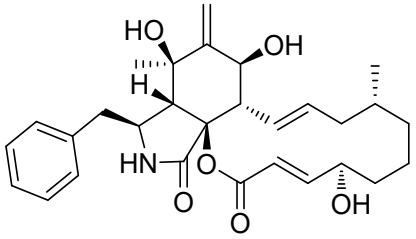
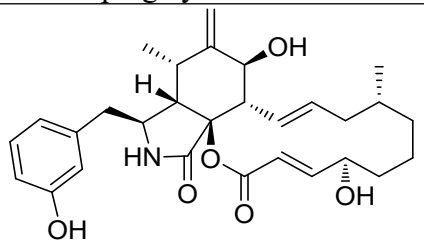
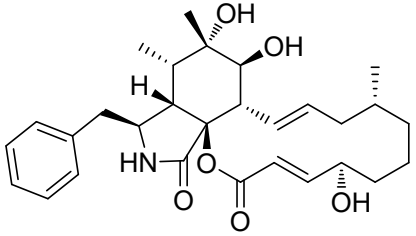
	Aspochalasin B			
83	 $C_{48}H_{68}N_2O_8$ Bisaspochalasin A	*Aspergillus flavipes* (KIB-536)	Displayed immunosuppressive effect	[27]
84	 $C_{48}H_{68}N_2O_8S$ Bisaspochalasin B	*Aspergillus flavipes* (KIB-536)	Displayed no immunosuppressive effect	[27]

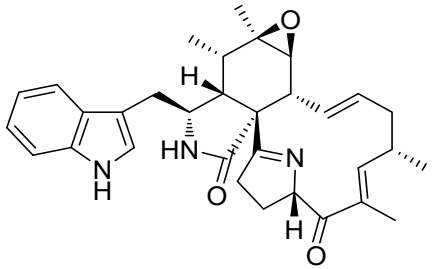
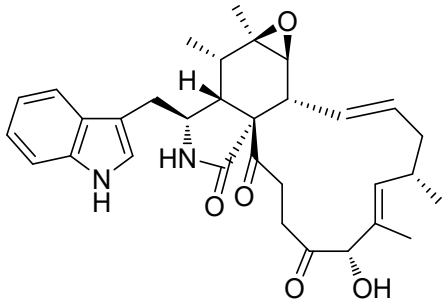
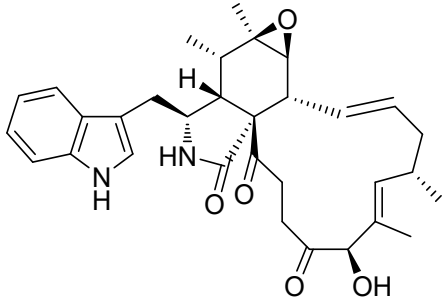
85	 $C_{48}H_{68}N_2O_{10}S$ Bisaspochalasin C	*Aspergillus flavipes* (KIB-536)	Displayed no immunosuppressive effect	[27]
86	 $C_{30}H_{37}NO_5$ Asporychalasin	*Aspergillus oryzae*	Cytotoxic	[35]
87	 $C_{24}H_{33}NO_3$ Aspermichalasine A	*Aspergillus micronesiensis*	Displayed no cytotoxicity	[36]

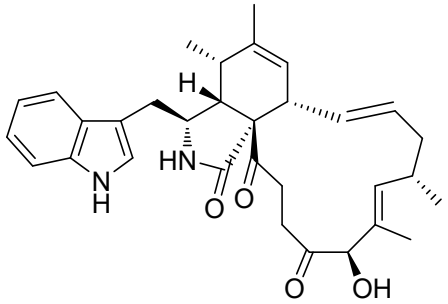
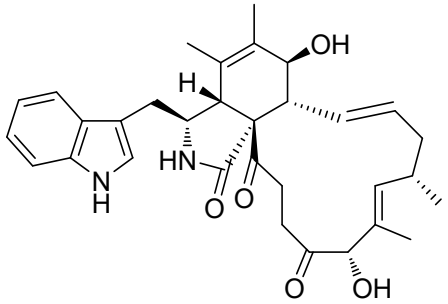
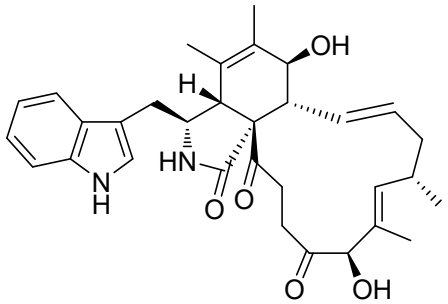
88	 $C_{26}H_{41}NO_5$ Aspermichalasine B	*Aspergillus micronesiensis*	Cytotoxic	[36]
89	 $C_{25}H_{39}NO_5$ Aspermichalasine C	*Aspergillus micronesiensis*	Cytotoxic	[36]
90	 $C_{25}H_{39}NO_4$ Aspermichalasine D	*Aspergillus micronesiensis*	Cytotoxic	[36]

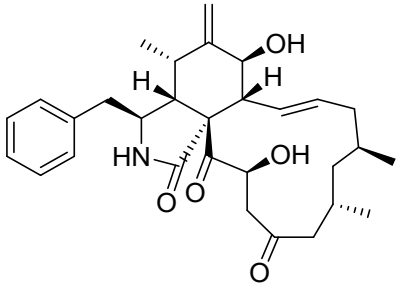
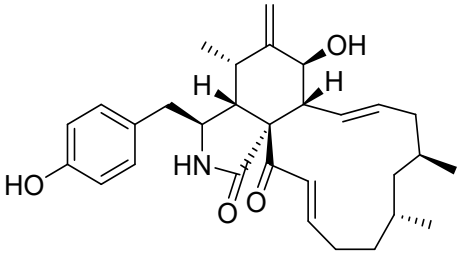
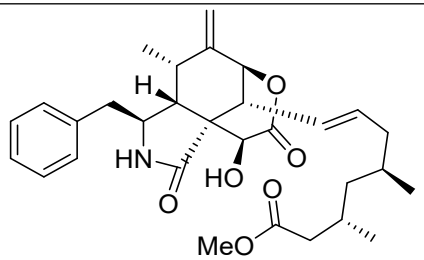
91	 $C_{24}H_{37}NO_4$ Aspermichalasine E	*Aspergillus micronesiensis*	Cytotoxic	[36]
92	 $C_{66}H_{82}N_2O_{16}$ Asperflavipine C	*Aspergillus micronesiensis*	Cytotoxic, apoptosis	[36]
93	 $C_{66}H_{80}N_2O_{16}$	*Aspergillus micronesiensis*	Cytotoxic	[36]

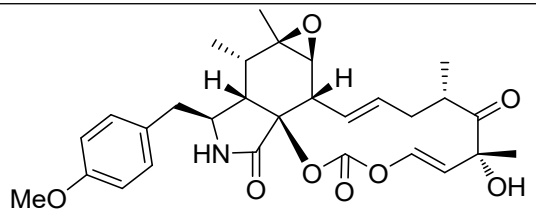
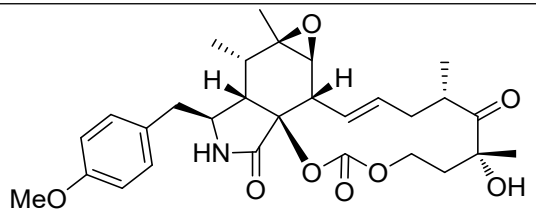
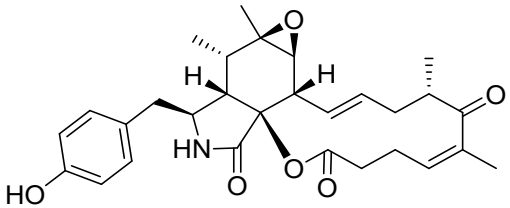
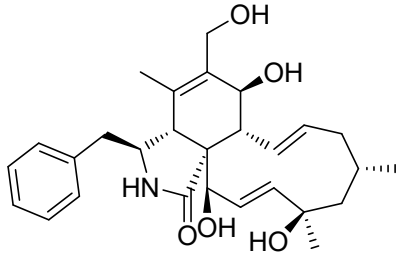
	Asperflavipine D			
94	 $C_{66}H_{80}N_2O_{15}$ Asperflavipine E	*Aspergillus micronesiensis*	Cytotoxic	[36]
95	 $C_{29}H_{37}NO_5$ Aspergicytochalasin A	*Aspergillus* sp. LE2	Displayed anti-inflammatory and no antibacterial	[1]
96	 $C_{29}H_{37}NO_6$ Aspergicytochalasin B	*Aspergillus* sp. LE2	Displayed no antibacterial and anti-inflammatory	[1]

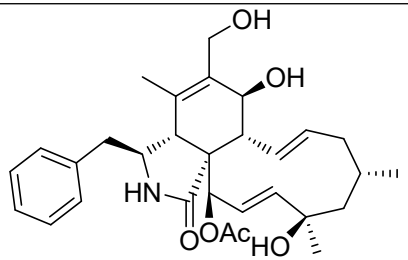
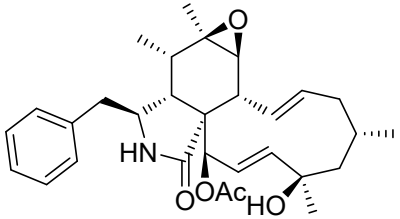
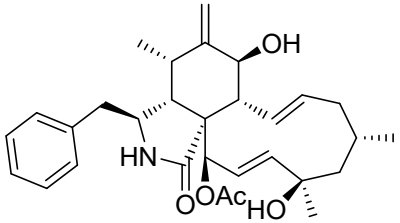
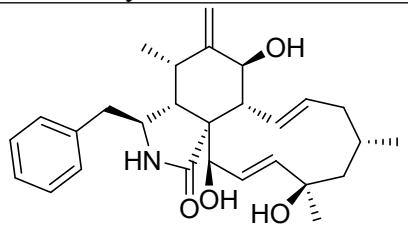
97	 $C_{29}H_{35}NO_6$ Aspergicytochalasin C	*Aspergillus* sp. LE2	Antibacterial, anti-inflammatory	[1]
98	 $C_{29}H_{37}NO_6$ Aspergicytochalasin D	*Aspergillus* sp. LE2	Displayed antibacterial and no anti-inflammatory	[1]
99	 $C_{29}H_{37}NO_6$ Aspergicytochalasin E	*Aspergillus* sp. LE2	Displayed anti-inflammatory no antibacterial	[1]
100		*Aspergillus* sp. LE2	Displayed anti-inflammatory and no antibacterial	[1]

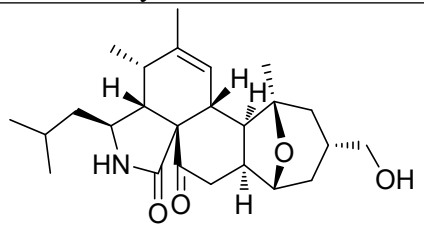
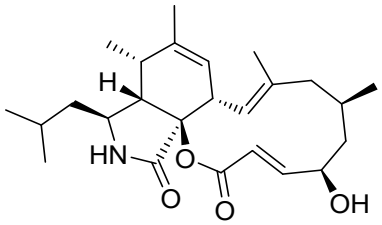
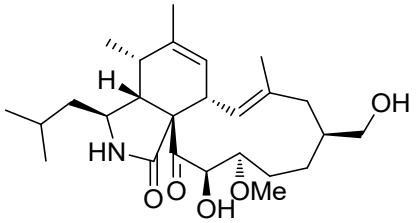
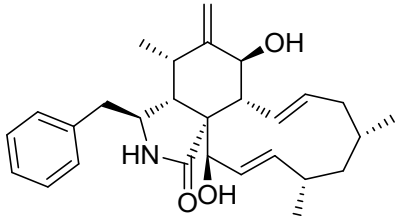
	$C_{29}H_{39}NO_6$ Aspergicytochalasin F			
101	 $C_{32}H_{37}N_3O_3$ Penochalasin D	*Penicillium* sp. OUPS-79	Cytotoxic	[37]
102	 $C_{32}H_{38}N_2O_5$ Penochalasin E	*Penicillium* sp. OUPS-79	Cytotoxic	[37]
103	 $C_{32}H_{38}N_2O_5$ Penochalasin F	*Penicillium* sp. OUPS-79	Cytotoxic	[37]

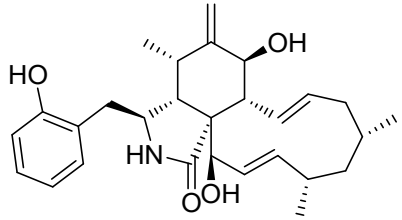
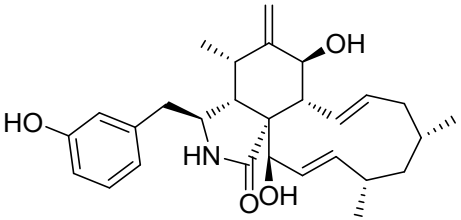
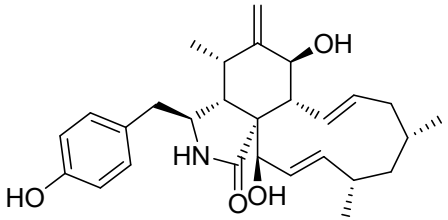
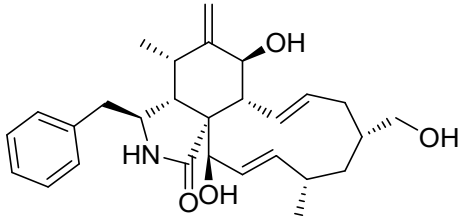
104	 $C_{32}H_{38}N_2O_4$ Penochalasin G	*Penicillium* sp. OUPS-79, *Chaetomium globosum* C2F17, *Chaetomium globosum* kz-19	Displayed cytotoxicity and no anti-tuberculosis activity	[37–39]
105	 $C_{32}H_{38}N_2O_5$ Penochalasin H	*Penicillium* sp. OUPS-79	Cytotoxic	[37]
106	 $C_{32}H_{38}N_2O_5$ Chaetoglobosin O	*Penicillium* sp. OUPS-79	Cytotoxic	[37]

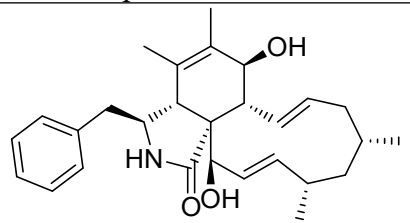
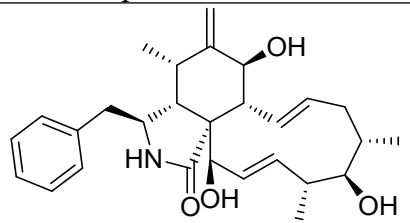
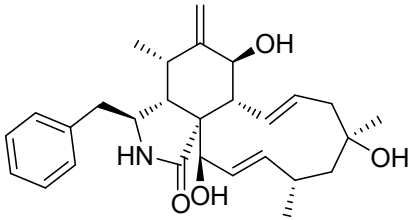
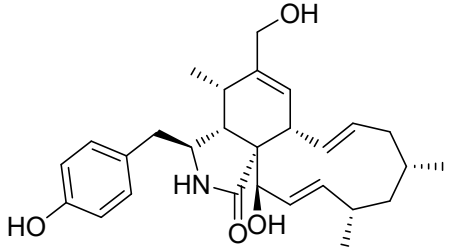
107	 $C_{30}H_{39}NO_5$ Talachalasin A	*Talaromyces muroii* sp. SCSIO 40439	Displayed cytotoxicity and no antiviral	40
108	 $C_{30}H_{39}NO_4$ Talachalasin B	*Talaromyces muroii* sp. SCSIO 40439	Displayed cytotoxicity and antiviral	40
109	 $C_{30}H_{39}NO_6$ Talachalasin C	*Talaromyces muroii* sp. SCSIO 40439	Displayed neither cytotoxicity nor antiviral	40

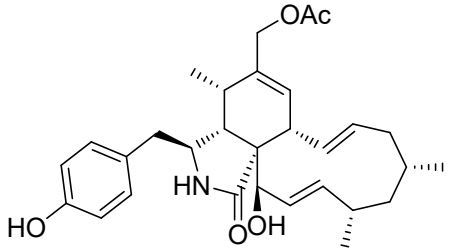
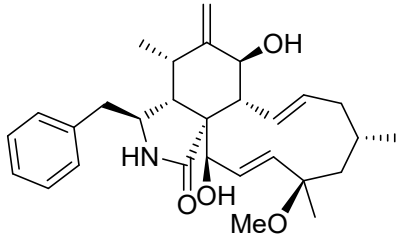
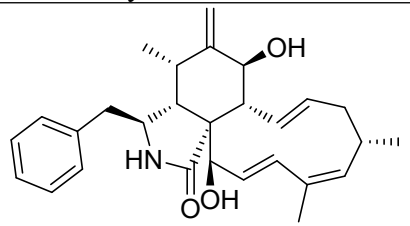
110	 $C_{29}H_{35}NO_8$ Phenochalasin B	*Botryotinia fuckeliana* A-S-3, *Daldinia concentrica*	Cytotoxic, apoptosis, nematicidal and antimicrobial	9,41,42
111	 $C_{29}H_{37}NO_8$ [1,3]-Dioxacyclotridecino	*Botryotinia fuckeliana* A-S-3	Displayed no cytotoxicity	41
112	 $C_{29}H_{35}NO_6$ [12]-Cytochalasin	*Botryotinia fuckeliana* A-S-3	Cytotoxic, Apoptosis	41
113	 $C_{28}H_{37}NO_5$ Cytochalasin Z10	*Endothia gyrosa* IFB-E023	Cytotoxicity	43

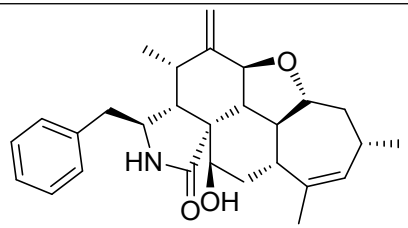
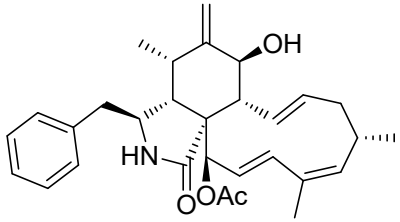
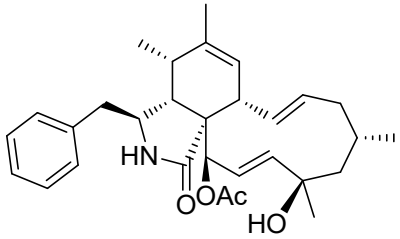
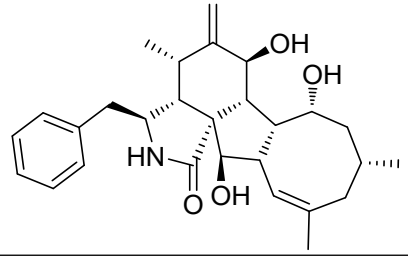
114	 $C_{30}H_{39}NO_6$ Cytochalasin Z11	*Endothia gyrosa* IFB-E023	Cytotoxicity	[43]
115	 $C_{30}H_{39}NO_5$ Epoxycytochalasin H	*Endothia gyrosa* IFB-E023, *Phomopsis* sp. xy22	Cytotoxicity	[43,44]
116	 $C_{30}H_{39}NO_5$ Cytochalasin H	*Endothia gyrosa* IFB-E023, *Diaporthe ueckerae* SC-J0123, *Diaporthe* cf. *ueckeri*, *Phomopsis* sp. xy22, *Phomopsis theicola*, *Phomopsis* sp. shj2, *Hypoxylon fragiforme*, H. *howeanum*	Cytotoxicity, antagonism, antimigratory, no anti-inflammatory effect, nematicidal, antimicrobial, and antibiofilm	[9,43–49]
117	 $C_{28}H_{37}NO_4$	*Endothia gyrosa* IFB-E023, *Diaporthe ueckerae* SC-J0123, *Diaporthe* cf. *ueckeri*, *Phomopsis* sp. shj2, *Phomopsis* sp. xy22	Cytotoxicity, nematicidal, and antimicrobial	[9,43–46,50]

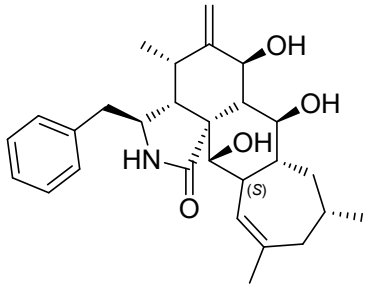
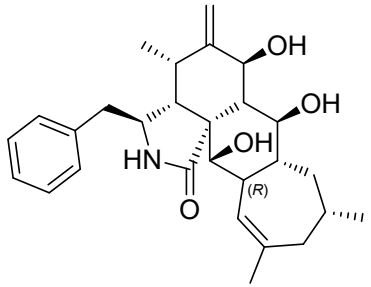
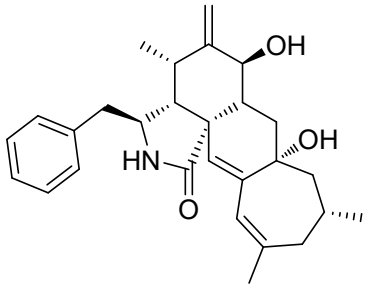
	Cytochalasin J			
118	 $C_{25}H_{37}NO_4$ Cytochrysin A	*Cytospora chrysosperma*	Displayed antibacterial and no antifungal activity	[51]
119	 $C_{25}H_{37}NO_4$ Cytochrysin B	*Cytospora chrysosperma*	Displayed no antibacterial and antifungal activity	[51]
120	 $C_{26}H_{41}NO_5$ Cytochrysin C	*Cytospora chrysosperma*	Displayed antibacterial and no antifungal activity	[51]
121	 $C_{28}H_{37}NO_3$	*Diaporthe* sp. SC-J0138, *Phomopsis* sp. xy21	Cytotoxicity	[44,52]

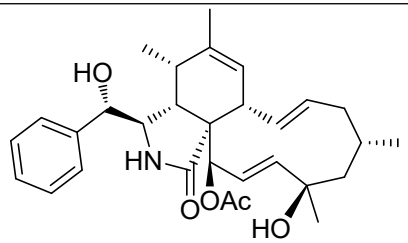
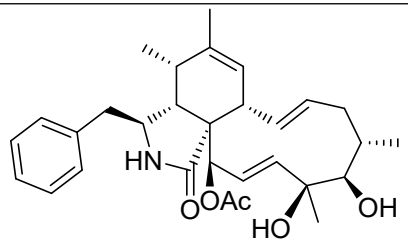
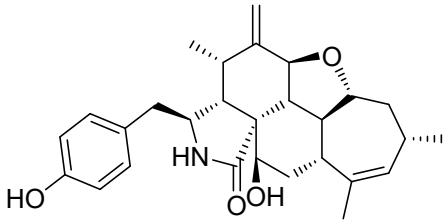
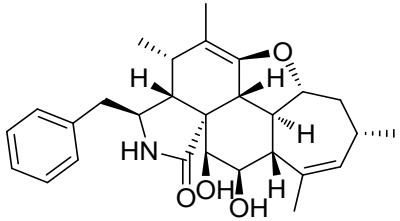
	21-*O*-deacetyl-L-696,474			
122	 $C_{28}H_{37}NO_4$ Phomopsichalasin G	*Diaporthe* sp. SC-J0138, *Phomopsis* sp. xy21	Cytotoxicity	44,52
123	 $C_{28}H_{37}NO_4$ Diaporthichalasin A	*Diaporthe* sp. SC-J0138, *Hypoxylon fragiforme*	Cytotoxicity, antibacterial and antibiofilm	52,53
124	 $C_{28}H_{37}NO_4$ Diaporthichalasin B	*Diaporthe* sp. SC-J0138, *Phomopsis* sp. xy21	Cytotoxicity	44,52
125	 $C_{28}H_{37}NO_4$	*Diaporthe* sp. SC-J0138	Cytotoxicity	52

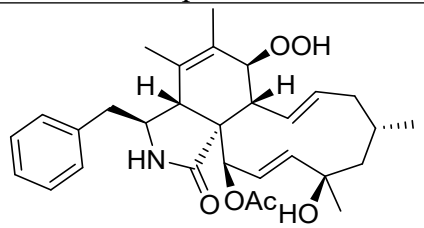
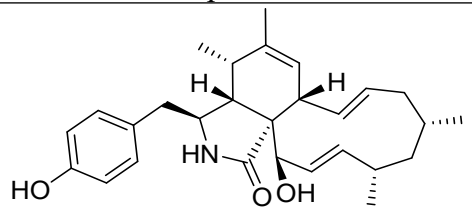
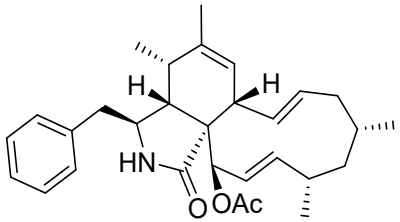
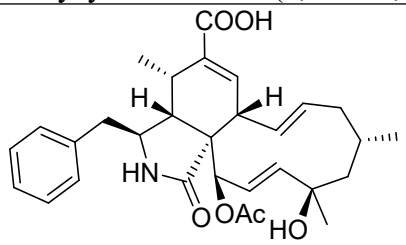
	Diaporthichalasin C			
126	 $C_{28}H_{37}NO_3$ Diaporthichalasin D	*Diaporthe* sp. SC-J0138	Cytotoxicity	[52]
127	 $C_{28}H_{37}NO_4$ Diaporthichalasin E	*Diaporthe* sp. SC-J0138	Cytotoxicity	[52]
128	 $C_{28}H_{37}NO_4$ Diaporthichalasin F	*Diaporthe* sp. SC-J0138	Cytotoxicity	[52]
129		*Diaporthe* sp. SC-J0138	Displayed no cytotoxicity	[52]

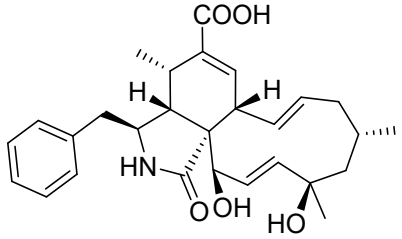
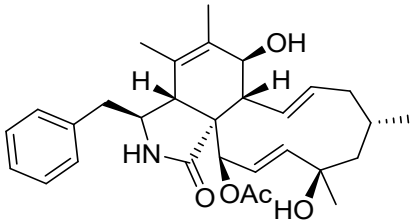
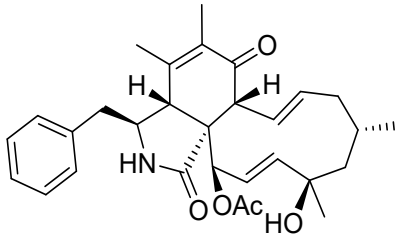
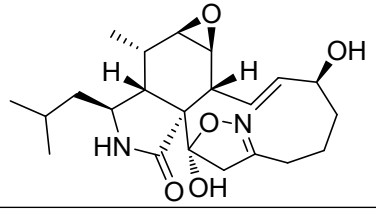
	$C_{28}H_{37}NO_4$ Diaporthichalasin G			
130	 $C_{30}H_{39}NO_5$ Diaporthichalasin H	*Diaporthe* sp. SC-J0138	Cytotoxicity	[52]
131	 $C_{29}H_{39}NO_4$ Cytochalasin J_1	*Diaporthe ueckerae* SC-J0123, *Phomopsis* sp. shj2	Antimigratory	[45,48]
132	 $C_{28}H_{35}NO_3$ Cytochalasin J_2	*Diaporthe ueckerae* SC-J0123	Was not determined for any relevant biological activity	[45]

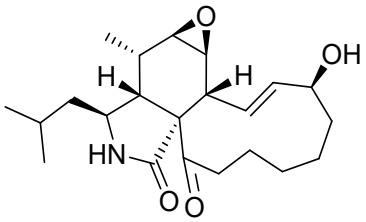
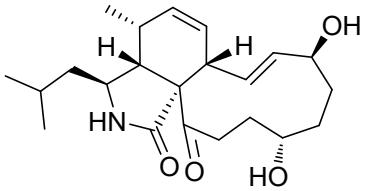
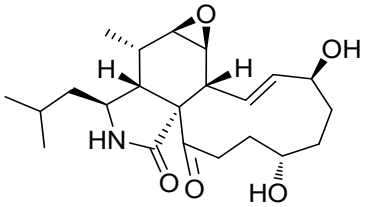
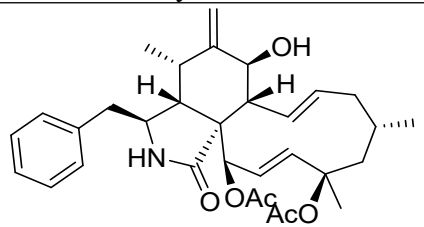
133	 $C_{28}H_{35}NO_3$ Cytochalasin J_3	*Diaporthe ueckerae* SC-J0123	Displayed no antibacterial	45
134	 $C_{30}H_{37}NO_4$ Longichalasin B	*Diaporthe ueckerae* SC-J0123	Displayed no antibacterial	45
135	 $C_{30}H_{39}NO_4$ RKS-1778	*Diaporthe ueckerae* SC-J0123, *Phomopsis theicola*, *Phomopsis* sp. shj2	Displayed antimigratory and no antibacterial	45,47,48
136		*Diaporthe ueckerae* SC-J0123, *Phomopsis* sp. shj2	Antibacterial	45,50

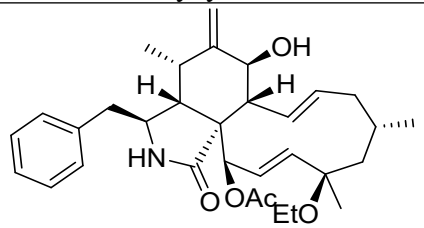
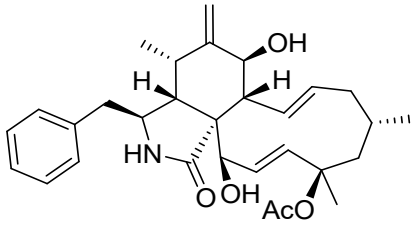
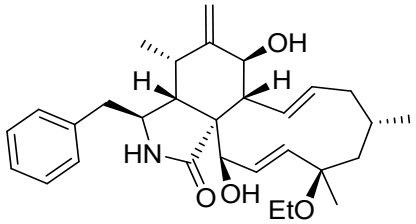
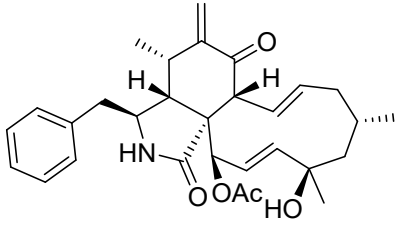
	$C_{28}H_{37}NO_4$ Phomopchalasin A			
137	 $C_{28}H_{37}NO_4$ Ueckerchalasin A	*Diaporthe ueckerae* SC-J0123	Displayed no antibacterial, cytotoxicity	45
138	 $C_{28}H_{37}NO_4$ Ueckerchalasin B	*Diaporthe ueckerae* SC-J0123	Displayed no antibacterial, cytotoxicity	45
139	 $C_{28}H_{35}NO_3$ Ueckerchalasin C	*Diaporthe ueckerae* SC-J0123	Antibacterial, cytotoxicity	45

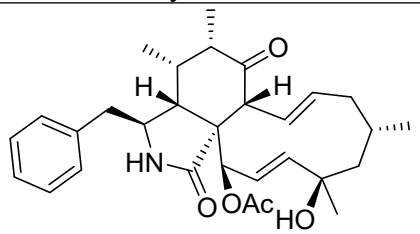
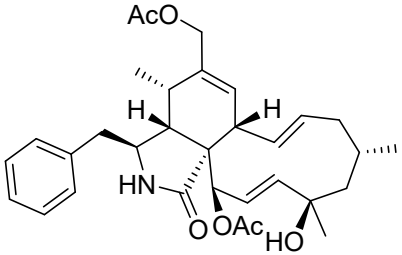
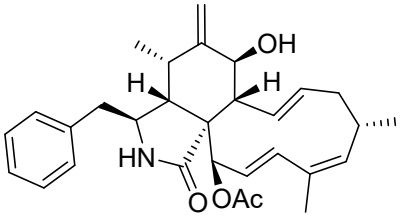
140	 $C_{30}H_{39}NO_5$ Ueckerchalasin D	*Diaporthe ueckerae* SC-J0123	Displayed cytotoxicity and no antibacterial	45
141	 $C_{30}H_{39}NO_5$ Ueckerchalasin E	*Diaporthe ueckerae* SC-J0123	Displayed cytotoxicity and no antibacterial	45
142	 $C_{28}H_{35}NO_4$ 4′-hydroxycytochalasin J_3	*Diaporthe ueckerae* SC-J0123	Displayed no antibacterial, cytotoxicity	45
143	 $C_{28}H_{35}NO_4$	*Phomopsis* sp. shj2	Antimigratory	50

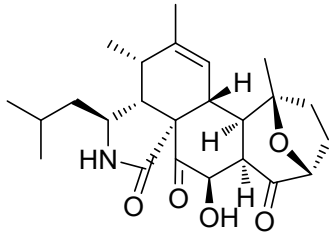
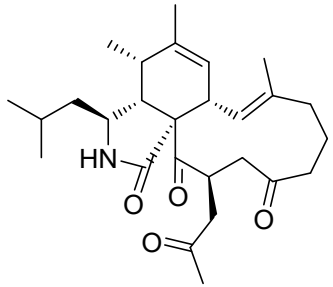
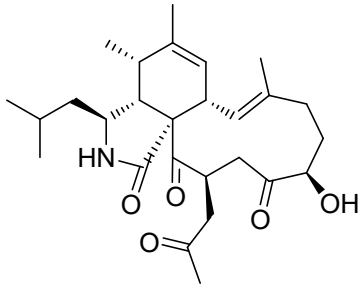
	Phomopchalasin B			
144	 $C_{30}H_{39}NO_6$ Phomopchalasin C	*Phomopsis* sp. shj2	Anti-inflammatory, cytotoxicity and antimigratory	[50]
145	 $C_{28}H_{37}NO_3$ Phomopsichalasin F	*Phomopsis* sp. xy21	Cytotoxicity	[44]
146	 $C_{30}H_{39}NO_3$ 18-Deoxycytochalasin H (7, L-696,474)	*Phomopsis* sp. xy22	Cytotoxicity	[44]
147	 $C_{30}H_{39}NO_6$	*Phomopsis* sp. xy22	Displayed no cytotoxicity	[44]

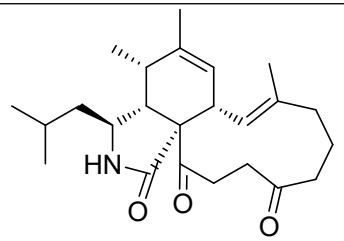
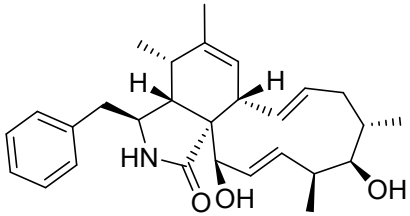
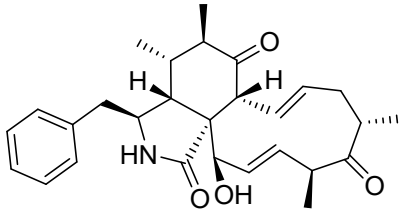
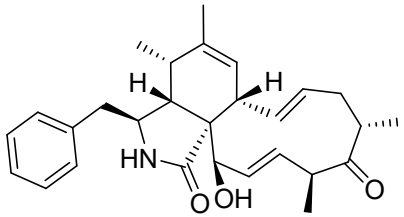
	Phomopsichalasin D			
148	 $C_{30}H_{39}NO_6$ Phomopsichalasin E	*Phomopsis* sp. xy22	Cytotoxicity	[44]
149	 $C_{30}H_{39}NO_5$ Cytochalasin N	*Phomopsis theicola*	Anti-inflammatory and no antagonism	[47]
150	 $C_{30}H_{37}NO_5$ Phomocytochalasin	*Phomopsis theicola*	Displayed no anti-inflammatory and antagonism effect	[47]
151		*Phomopsis* sp. sh917	Displayed no cytotoxicity and anti-inflammatory	[54]

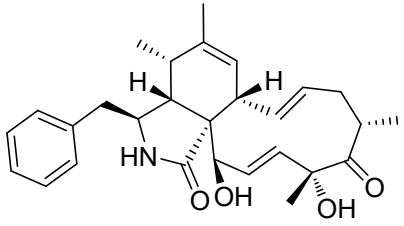
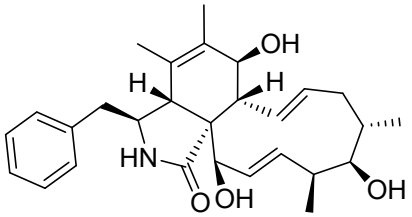
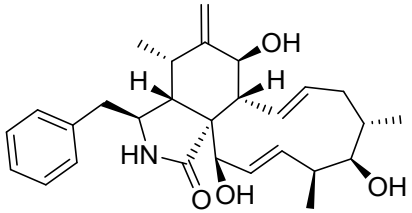
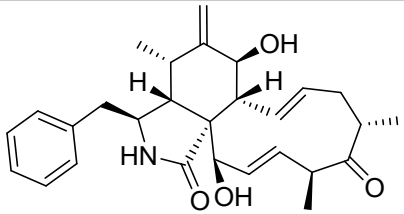
	$C_{22}H_{32}N_2O_5$ Phomopsisin A			
152	 $C_{22}H_{33}NO_4$ Phomopsisin B	*Phomopsis* sp. sh917	Displayed no cytotoxicity and anti-inflammatory	[54]
153	 $C_{22}H_{33}NO_4$ Phomopsisin C	*Phomopsis* sp. sh917	Displayed no cytotoxicity and showed anti-inflammatory activity	[54]
154	 $C_{22}H_{33}NO_5$ Xylarisin	*Phomopsis* sp. sh917	Displayed no cytotoxicity and anti-inflammatory	[54]
155	 $C_{32}H_{41}NO_6$	*Phomopsis* sp. shj2	Antimigratory	[48]

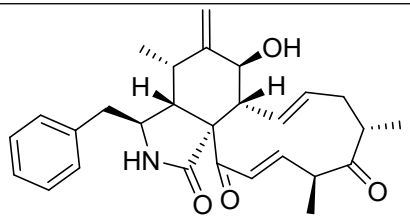
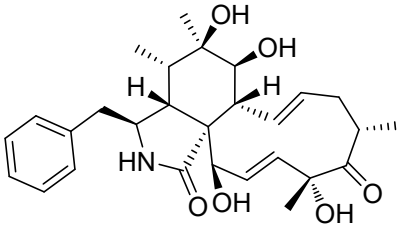
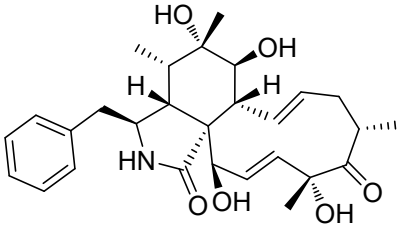
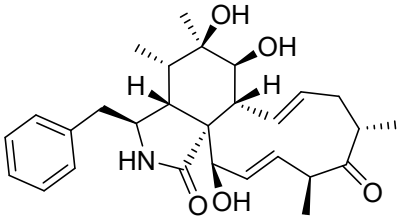
	18-Acetoxycytochalasin H			
156	 $C_{32}H_{43}NO_5$ 18-Ethoxycytochalasin H	*Phomopsis* sp. shj2	Antimigratory	[48]
157	 $C_{30}H_{39}NO_5$ 18-Acetoxycytochalasin J	*Phomopsis* sp. shj2	Antimigratory	[48]
158	 $C_{30}H_{41}NO_4$ 18-Ethoxycytochalasin J	*Phomopsis* sp. shj2	Not determined for any relevant biological activity	[48]
159	 $C_{30}H_{37}NO_5$	*Phomopsis* sp. shj2	Not determined for any relevant biological activity	[48]

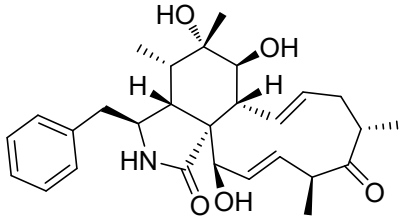
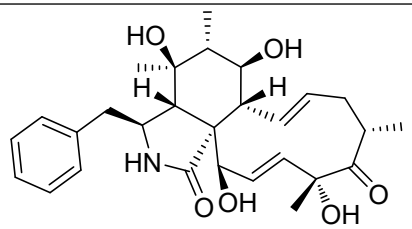
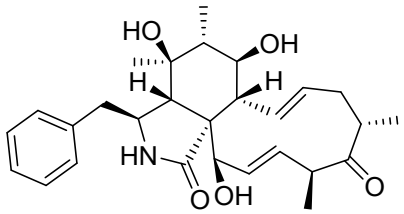
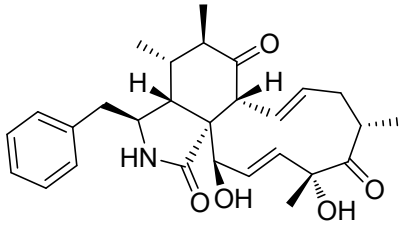
	7-Oxocytochalasin H			
160	 $C_{30}H_{39}NO_5$ Cytochalasin H_3	*Phomopsis* sp. shj2	Not determined for any relevant biological activity	48
161	 $C_{32}H_{42}NO_6$ Cytochalasin H_4	*Phomopsis* sp. shj2	Displayed no antimigratory activity	48
162	 $C_{30}H_{37}NO_4$ 21-Acetoxycytochalasin J_2	*Phomopsis* sp. shj2	Antimigratory	48

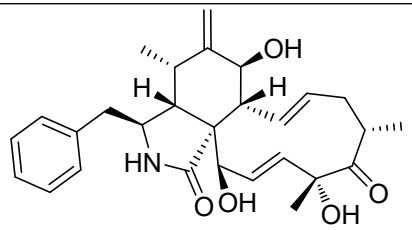
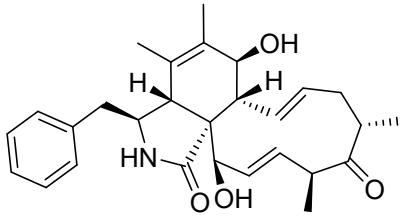
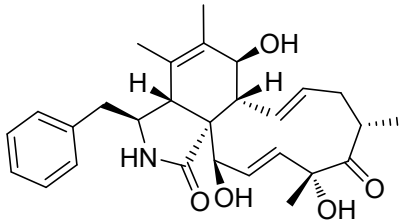
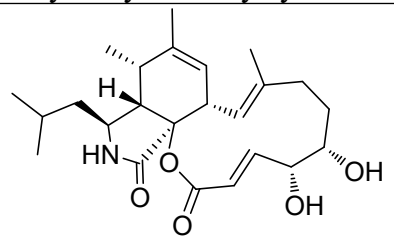
163	 $C_{24}H_{33}NO_5$ Spicochalasin A	*Spicaria elegans*	Cytotoxicity	[26]
164	 $C_{27}H_{39}NO_4$ Aspochalasin N	*Spicaria elegans*	Displayed no cytotoxicity	[26]
165	 $C_{27}H_{39}NO_5$ Aspochalasin O	*Spicaria elegans*	Displayed no cytotoxicity	[26]

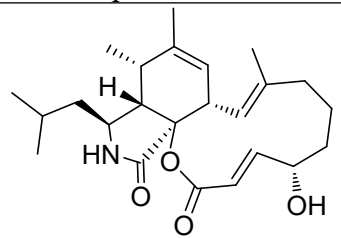
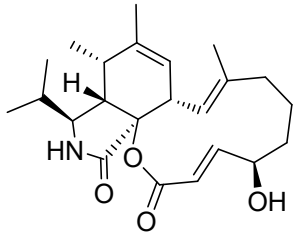
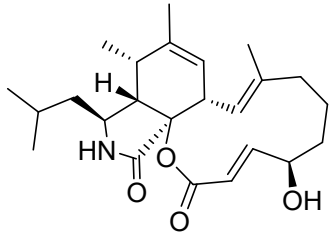
166	 $C_{24}H_{35}NO_3$ Aspochalasin Q	*Spicaria elegans*	Displayed no cytotoxicity	26
167	 $C_{28}H_{37}NO_3$ Brunnesin A	*Metarhizium brunneum* TBRC-BCC 79240	Displayed no antibacterial, antifungal and cytotoxicity	55
168	 $C_{28}H_{35}NO_4$ Brunnesin B	*Metarhizium brunneum* TBRC-BCC 79240	Displayed antibacterial, and no antifungal and cytotoxicity	55
169	 $C_{28}H_{35}NO_3$ Brunnesin C	*Metarhizium brunneum* TBRC-BCC 79240	Displayed antibacterial, and no antifungal and cytotoxicity	55

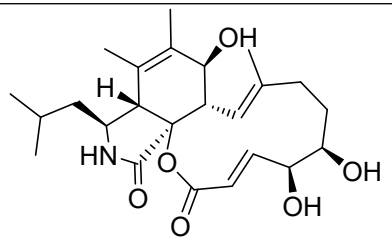
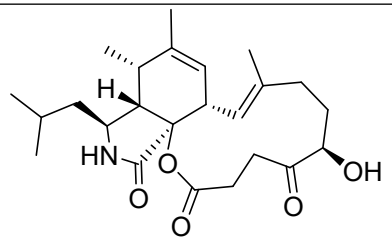
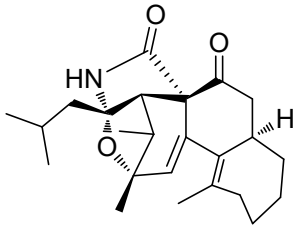
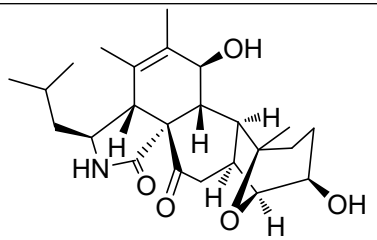
170	 $C_{28}H_{35}NO_4$ Brunnesin D	*Metarhizium brunneum* TBRC-BCC 79240	Displayed antibacterial, and cytotoxicity and no antifungal	55
171	 $C_{28}H_{37}NO_4$ Brunnesin E	*Metarhizium brunneum* TBRC-BCC 79240	Displayed antibacterial, and no antifungal and cytotoxicity	55
172	 $C_{28}H_{37}NO_4$ Brunnesin F	*Metarhizium brunneum* TBRC-BCC 79240	Displayed antibacterial, and cytotoxicity and no antifungal	55
173	 $C_{28}H_{35}NO_4$ Brunnesin G	*Metarhizium brunneum* TBRC-BCC 79240	Displayed antibacterial, and cytotoxicity and no antifungal	55

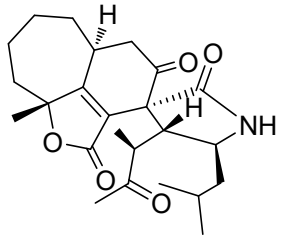
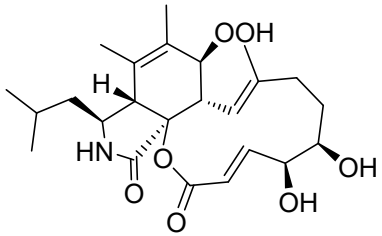
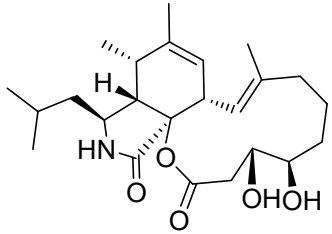
174	 $C_{28}H_{33}NO_4$ Brunnesin H	*Metarhizium brunneum* TBRC-BCC 79240	Not determined for any relevant biological activity	55
175	 $C_{28}H_{37}NO_6$ Brunnesin I	*Metarhizium brunneum* TBRC-BCC 79240	Displayed cytotoxicity and no antibacterial, and antifungal	55
176	 $C_{28}H_{37}NO_6$ Brunnesin J	*Metarhizium brunneum* TBRC-BCC 79240	Displayed no antibacterial, antifungal and cytotoxicity	55
177	 $C_{28}H_{37}NO_5$ Brunnesin K	*Metarhizium brunneum* TBRC-BCC 79240	Displayed no antibacterial, antifungal and cytotoxicity	55

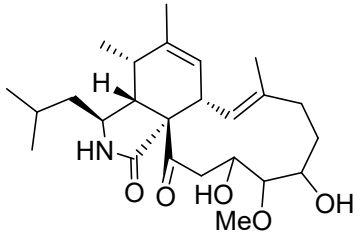
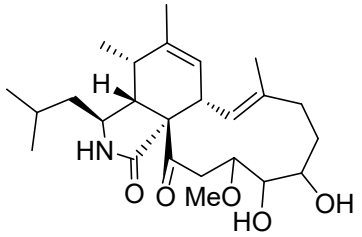
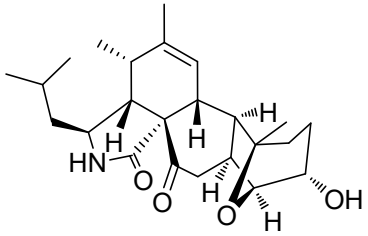
178	 $C_{28}H_{37}NO_5$ Brunnesin L	*Metarhizium brunneum* TBRC-BCC 79240	Displayed cytotoxicity and no antibacterial, and antifungal	[55]
179	 $C_{28}H_{37}NO_6$ Brunnesin M	*Metarhizium brunneum* TBRC-BCC 79240	Displayed cytotoxicity and no antibacterial, and antifungal	[55]
180	 $C_{28}H_{37}NO_5$ Brunnesin N	*Metarhizium brunneum* TBRC-BCC 79240	Displayed cytotoxicity and no antibacterial, and antifungal	[55]
181	 $C_{28}H_{35}NO_5$ 6,7-Dihydro-7-oxo-deacetylcytochalasin C	*Metarhizium brunneum* TBRC-BCC 79240, *Xylaria longipes, Xylaria arbuscula* GZS74	Displayed antibacterial, cytotoxicity and no antifungal	[55,56]

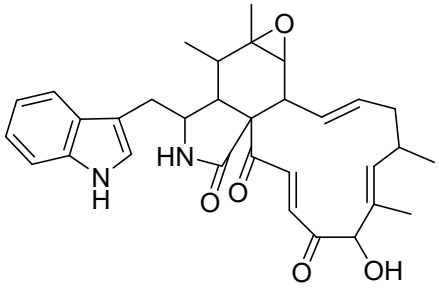
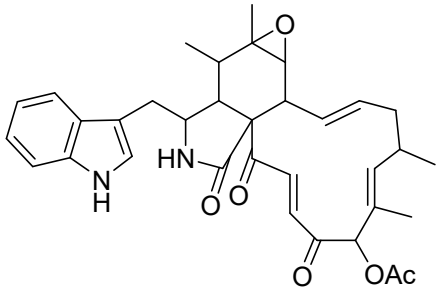
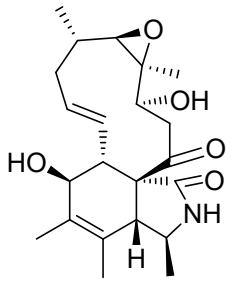
182	 $C_{28}H_{35}NO_5$ Zygosporin D	*Metarhizium brunneum* TBRC-BCC 79240, *Xylaria longipes, Xylaria arbuscula* GZS74	Displayed antibacterial, cytotoxicity and no antifungal	55,56
183	 $C_{28}H_{35}NO_4$ Deacetylcytochalasin C	*Metarhizium brunneum* TBRC-BCC 79240, *Xylaria arbuscula* GZS74	Displayed antibacterial, cytotoxicity and no antifungal	55,57
184	 $C_{28}H_{35}NO_5$ 18-Deshydroxyl-deacetylcytochalasin C	*Metarhizium brunneum* TBRC-BCC 79240	Displayed antibacterial, and no antifungal and cytotoxicity	55
185	 $C_{24}H_{35}NO_5$	*Trichoderma gamsii*	Displayed no cytotoxicity	24,58

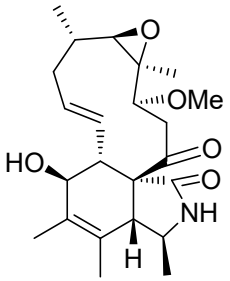
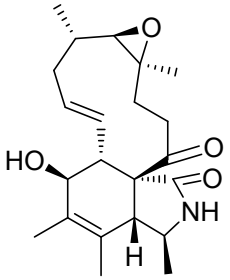
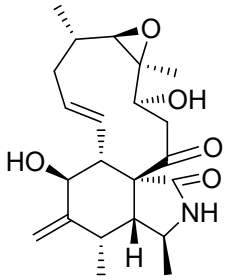
	Aspochalasin I			
186	 $C_{24}H_{35}NO_4$ Aspochalasin J	*Trichoderma gamsii*	Cytotoxic	24,58
187	 $C_{23}H_{33}NO_4$ Trichalasin A	*Trichoderma gamsii*	Displayed no cytotoxicity	58
188	 $C_{24}H_{35}NO_4$ Trichalasin B	*Trichoderma gamsii*	Displayed no cytotoxicity	58

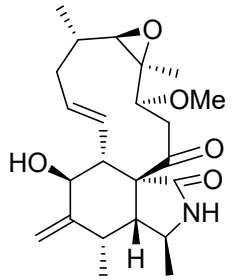
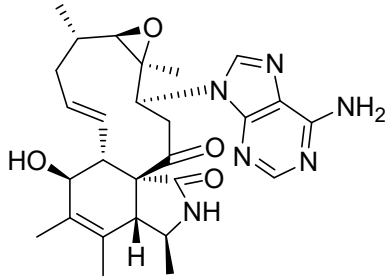
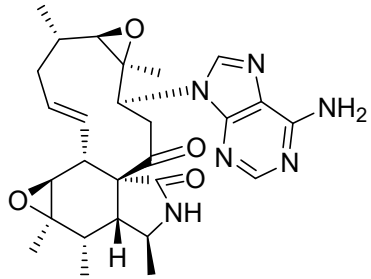
189	 $C_{24}H_{35}NO_6$ Trichalasin C	*Trichoderma gamsii*	Displayed no cytotoxicity	23,34
190	 $C_{24}H_{35}NO_5$ Trichalasin D	*Trichoderma gamsii*	Displayed no cytotoxicity	23
191	 $C_{24}H_{33}NO_3$ Trichoderone A	*Trichoderma gamsii*	Displayed no cytotoxicity	24
192		*Trichoderma gamsii*	Displayed no cytotoxicity	24

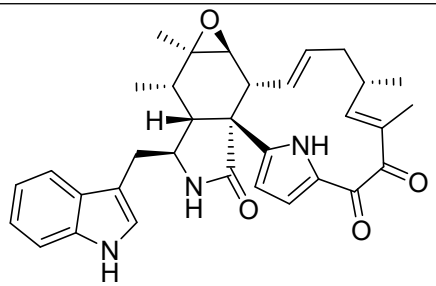
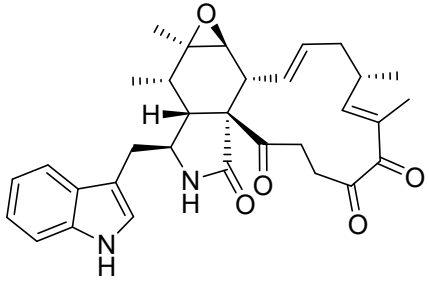
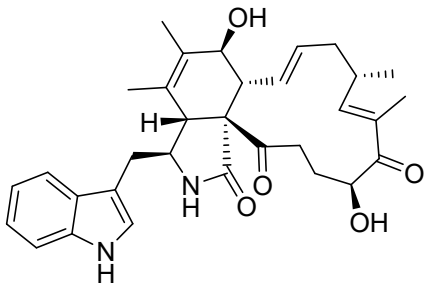
	$C_{24}H_{35}NO_5$ Trichoderone B			
193	 $C_{24}H_{33}NO_5$ Trichodermone	*Trichoderma gamsii*	Displayed no cytotoxicity	25
194	 $C_{24}H_{35}NO_7$ Trichalasin E	*Trichoderma gamsii*	Displayed no cytotoxicity	34
195	 $C_{24}H_{37}NO_5$ Trichalasin F	*Trichoderma gamsii*	Displayed no cytotoxicity	34

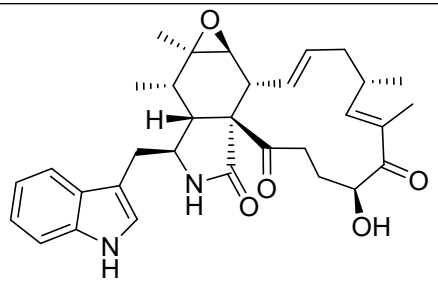
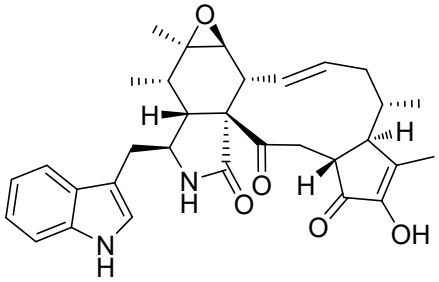
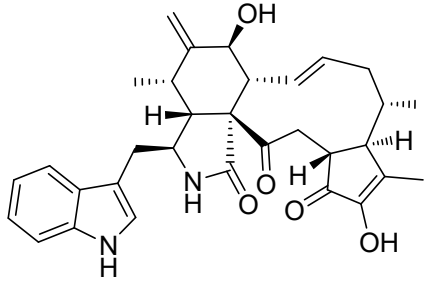
196	 $C_{25}H_{39}NO_5$ Aspochalasin K	*Trichoderma gamsii*	Displayed no cytotoxicity	[34]
197	 $C_{25}H_{39}NO_5$ Trichalasin G	*Trichoderma gamsii*	Cytotoxicity	[34]
198	 $C_{24}H_{35}NO_4$ Trichalasin H	*Trichoderma gamsii*	Displayed no cytotoxicity	[34]

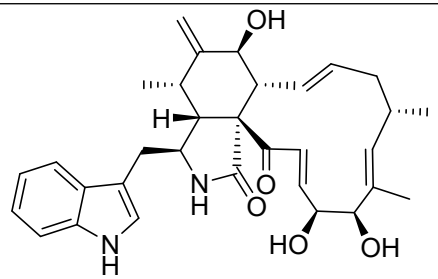
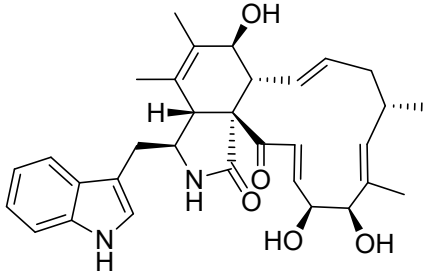
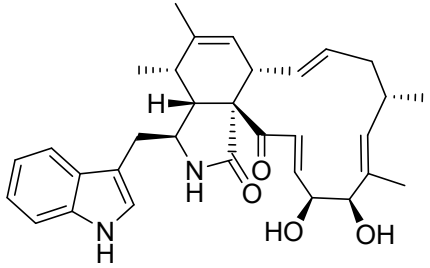
199	 $C_{32}H_{36}N_2O_5$ Chaetoglobosin A	*Calonectria morganii*, *Chaetomium globosum* TW1-1, *Chaetomium globosum, Chaetomium globosum* C2F17, *Chaetomium globosum* YE3048	Antibacterial, antifungal, nematicidal, and antimicrobial	9,38,59–62
200	 $C_{34}H_{38}N_2O_6$ 19-*O*-acetylchaetoglobosin A	*Calonectria morganii*	Not determined for any relevant biological activity	59
201	 $C_{22}H_{31}NO_5$ Alachalasin A	*Stachybotrys charatum*	Displayed no antimicrobial effect	63

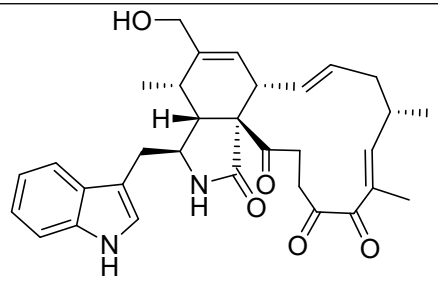
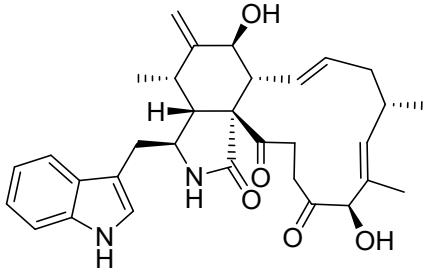
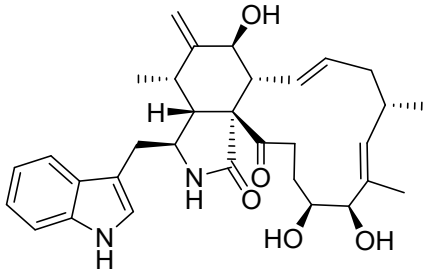
202	 $C_{23}H_{33}NO_5$ Alachalasin B	*Stachybotrys charatum*	Displayed no antimicrobial effect	63
203	 $C_{22}H_{31}NO_4$ Alachalasin C	*Stachybotrys charatum*	Displayed no antimicrobial effect	63
204	 $C_{22}H_{31}NO_5$ Alachalasin D	*Stachybotrys charatum*	Antibacterial	63

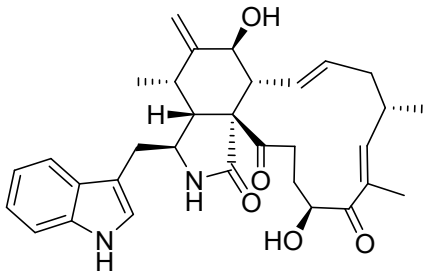
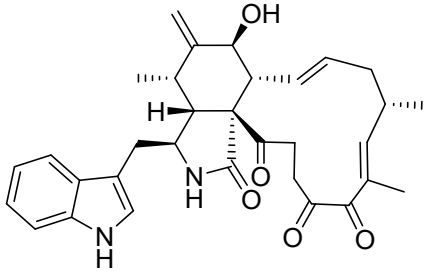
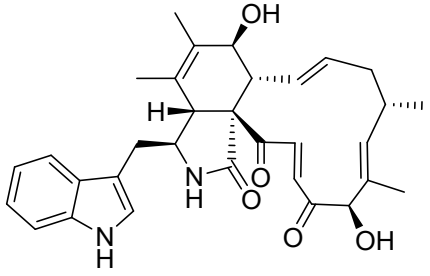
205	 $C_{23}H_{33}NO_5$ Alachalasin E	*Stachybotrys charatum*	Displayed no antimicrobial effect	63
206	 $C_{27}H_{34}N_6O_4$ Alachalasin F	*Stachybotrys charatum*	Displayed no antimicrobial effect	63
207	 $C_{27}H_{38}N_2O_6$ Alachalasin G	*Stachybotrys charatum*	Antibacterial	63

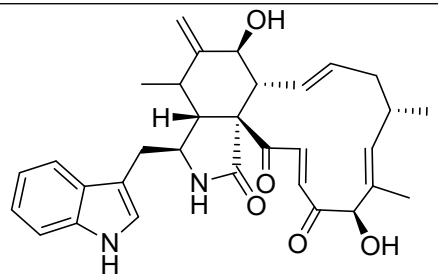
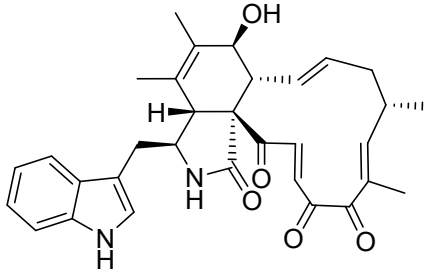
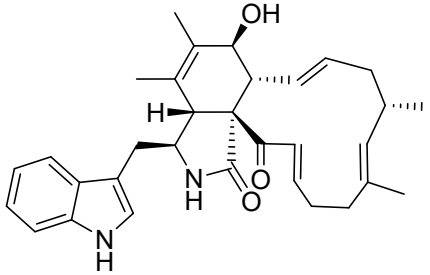
208	 $C_{33}H_{35}N_3O_4$ Penochalasin A	*Chaetomiun globosum* IFB-E019, *Chaetomium globosum* TW1-1	Cytotoxicity, antiviral	64,65
209	 $C_{32}H_{36}N_2O_5$ Chaetoglobosin C	*Chaetomiun globosum* IFB-E019, *Chaetomium elatum* ChE01, *Chaetomiun globosum*, *Chaetomium globosum* SNSHI-5, *Chaetomium globosum* TW1-1, *Chaetomium globosum* YE3048, *Chaetomium globosum* kz-19	Displayed cytotoxicity, phytotoxicity antibacterial, antifungal, and no anti-tuberculosis activity	39,61,62,64,66–70
210	 $C_{32}H_{38}N_2O_5$ Chaetoglobosin E	*Chaetomiun globosum* IFB-E019, *Chaetomiun globosum*, *Chaetomium globosum* MCCC 3A00607, *Chaetomium globosum* SNSHI-5, *Chaetomium globosum* C2F17, *Chaetomium globosum* TY1, *Chaetomium globosum* D38, *Chaetomium globosum* YE3048, *Chaetomium globosum* YE3048, *Chaetomium globosum* kz-19, *Chaetomium*	Displayed cytotoxicity, phytotoxicity, antibacterial, antifungal, no anti-tuberculosis, and no anti-inflammatory	38,39,62,64,67–69,71–75

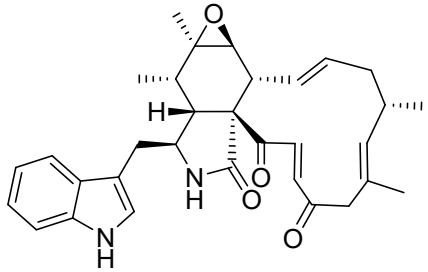
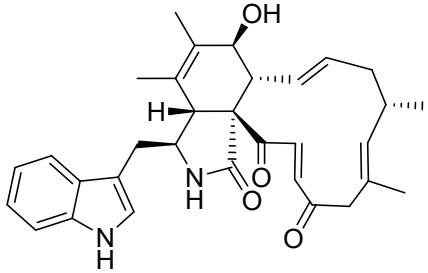
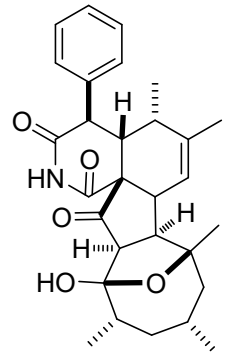
		madrasense 375, *Chaetomium tectifimeti* S104		
211	 $C_{32}H_{38}N_2O_5$ Chaetoglobosin F	*Chaetomiun globosum* IFB-E019, *Chaetomium elatum* ChE01, *Chaetomiun globosum*, *Chaetomium globosum* MCCC 3A00607, *Chaetomium globosum* TW1-1, *Chaetomium globosum* SNSHI-5, *Chaetomium globosum* C2F17	Displayed cytotoxicity and no anti-tuberculosis activity	38,64,66–69,71,76
212	 $C_{32}H_{36}N_2O_5$ Chaetoglobosin U	*Chaetomiun globosum* IFB-E019, *Chaetomium globosum* TW1-1, *Chaetomium globosum* YE3048	Cytotoxicity, antibacterial, antifungal,	60,62,64,69,76
213	 $C_{32}H_{36}N_2O_5$ Cytoglobosin A	*Chaetomium globosum* QEN-14, *Chaetomium globosum* TW1-1, *Chaetomium globosum* SNSHI-5, *Chaetomium madrasense* 375	Displayed no cytotoxicity	68,69,74,76–78

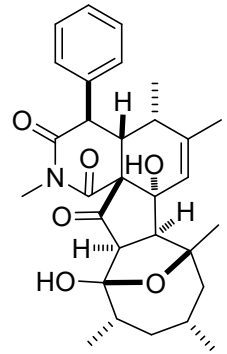
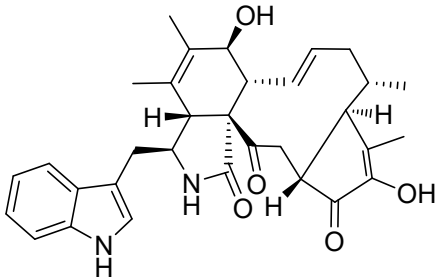
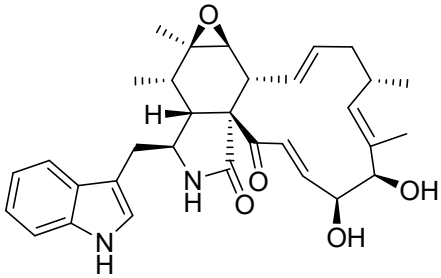
214	 $C_{32}H_{38}N_2O_5$ Cytoglobosin B	*Chaetomium globosum* QEN-14, *Chaetomium globosum* MCCC 3A00607, *Chaetomium globosum* SNSHI-5	Cytotoxicity	68,69,71,77
215	 $C_{32}H_{38}N_2O_5$ Cytoglobosin C	*Chaetomium globosum* QEN-14, *Chaetomium globosum* TW1-1, *Chaetomium globosum* MCCC 3A00607, *Chaetomium globosum* SNSHI-5, *Chaetomium globosum* YE3048	Cytotoxicity, antibacterial, antifungal,	62,68,69,71,77,79
216	 $C_{32}H_{38}N_2O_4$ Cytoglobosin D	*Chaetomium globosum* QEN-14	Cytotoxicity	77

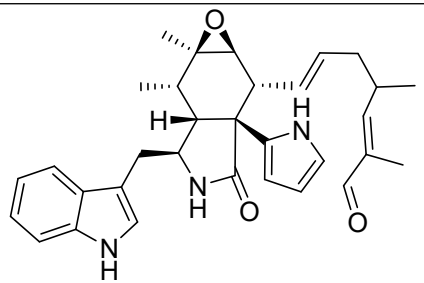
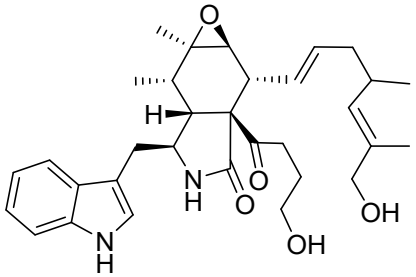
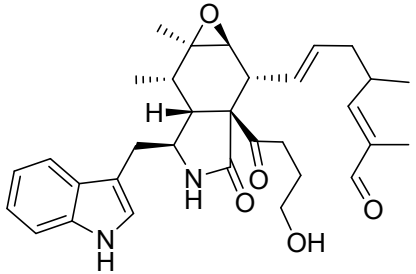
217	 $C_{32}H_{36}N_2O_5$ Cytoglobosin E	*Chaetomium globosum* QEN-14, *Chaetomium globosum* TW1-1	Displayed no cytotoxicity	[77,79]
218	 $C_{32}H_{38}N_2O_5$ Cytoglobosin F	*Chaetomium globosum* QEN-14	Not determined for any relevant biological activity	[77]
219	 $C_{32}H_{40}N_2O_5$ Cytoglobosin G	*Chaetomium globosum* QEN-14	Displayed no cytotoxicity	[77]

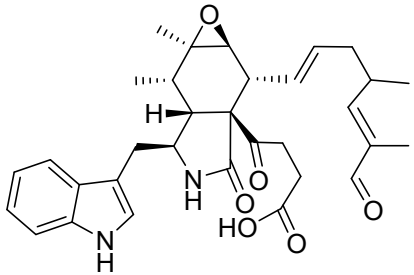
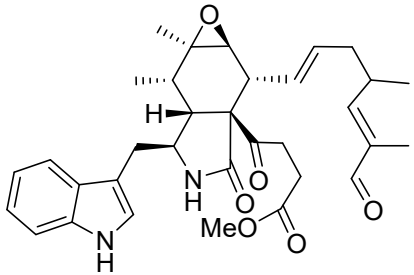
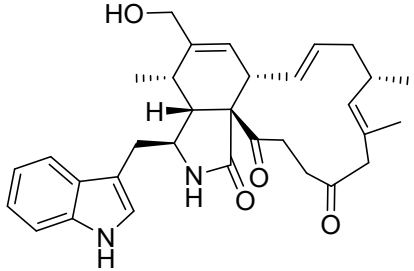
220	 $C_{32}H_{38}N_2O_5$ Chaetoglobosin F_{ex}	*Chaetomium globosum* QEN-14, *Chaetomiun globosum, Chaetomium globosum* MCCC 3A00607, *Chaetomium globosum* SNSHI-5, *Chaetomium globosum* C2F17, *Chaetomium globosum* D38, *Chaetomium globosum* kz-19, *Chaetomium tectifimeti* S104	Displayed anti-inflammatory, phytotoxicity, cytotoxicity and no anti-tuberculosis activity, no antibacterial	38,39,67–69,71,73,75,77,80
221	 $C_{32}H_{36}N_2O_5$ Isochaetoglobosin D	*Chaetomium globosum* QEN-14, *Chaetomium elatum* ChE01, *Chaetomium globosum* MCCC 3A00607, *Chaetomium globosum* SNSHI-5, *Chaetomium madrasense* 375, *Chaetomium globosum* C2F17, *Chaetomium globosum* kz-19, *Chaetomium tectifimeti* S104	Displayed cytotoxicity and no anti-tuberculosis activity, no antibacterial, no anti-inflammatory	38,39,66,68,69,71,75,77,78
222	 $C_{32}H_{36}N_2O_5$ Chaetoglobosin B	*Chaetomium elatum* ChE01, *Chaetomium globosum* MCCC 3A00607, *Chaetomium globosum* C2F17, TY1, *Chaetomium madrasense* 375, *Chaetomium tectifimeti* S104	Displayed cytotoxicity and no anti-tuberculosis activity, no antibacterial, no anti-inflammatory	38,66,71,72,74,75

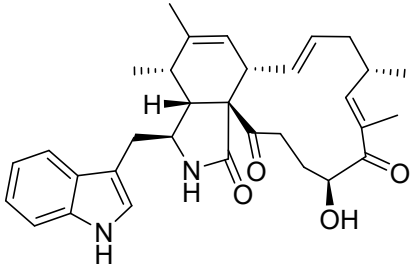
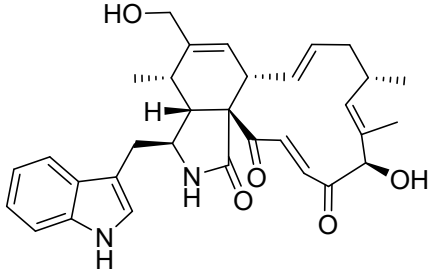
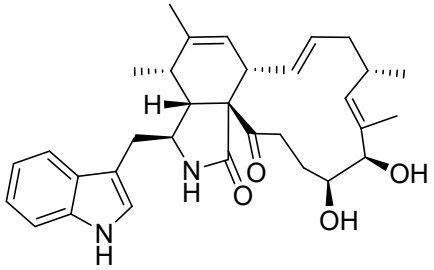
223	 $C_{32}H_{36}N_2O_5$ Chaetoglobosin D	*Chaetomium elatum* ChE01, *Chaetomium globosum* C2F17, *Chaetomium globosum* kz-19, *Chaetomium madrasense* 375, *Chaetomium tectifimeti* S104	Displayed cytotoxicity and no anti-tuberculosis activity, no antibacterial, no anti-inflammatory	38,39,66,74,75
224	 $C_{32}H_{34}N_2O_5$ Chaetoglobosin G	*Chaetomium elatum* ChE01, *Chaetomium globosum*, *Chaetomium globosum* SNSHI-5, *Chaetomium madrasense* 375, *Chaetomium globosum* C2F17, *Chaetomium globosum* kz-19, *Chaetomium tectifimeti* S104	Displayed cytotoxicity, antibacterial, antifungal, cytotoxicity and no anti-tuberculosis activity, no anti-inflammatory	38,39,66,68,69,75,78,81
225	 $C_{32}H_{38}N_2O_3$ Chaetoglobosin V	*Chaetomium elatum* ChE01, *Chaetomium globosum* TW1-1, *Chaetomium globosum* kz-19	Displayed cytotoxicity and no antibacterial	39,66,82

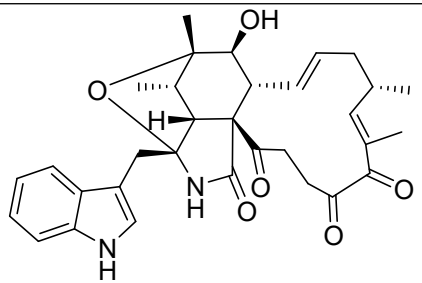
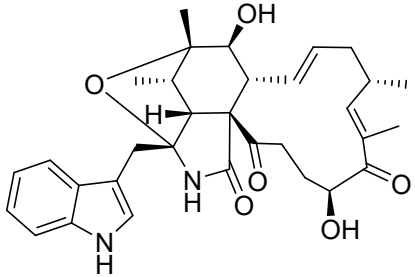
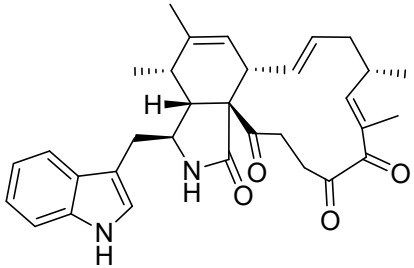
226	 $C_{32}H_{36}N_2O_4$ Prochaetoglobosin III	*Chaetomium elatum* ChE01	Cytotoxicity	[66]
227	 $C_{32}H_{36}N_2O_4$ Prochaetoglobosin III_{ed}	*Chaetomium elatum* ChE01	Cytotoxicity	[66]
228	 $C_{29}H_{35}NO_5$ Chaetoconvosin A	*Chaetomium convolutum*	Displayed no cytotoxicity	[83]

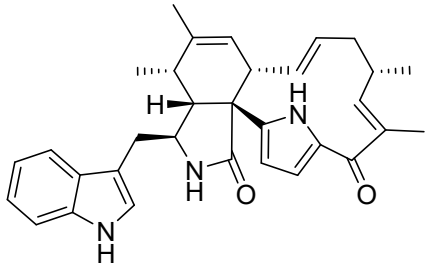
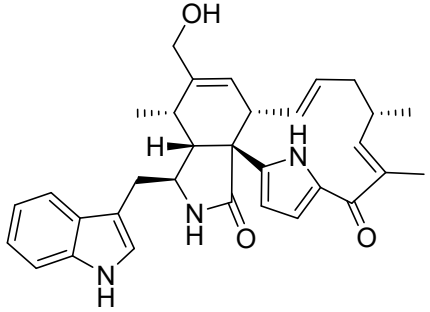
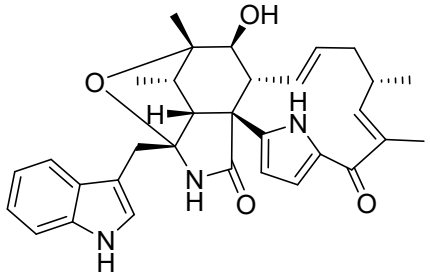
229	 $C_{30}H_{37}NO_6$ Chaetoconvosin B	*Chaetomium convolutum*	Cytotoxicity, phytotoxicity	83
230	 $C_{32}H_{36}N_2O_5$ Chaetoglobosin V_b	*Chaetomium globosum*, *Chaetomium globosum* SNSHI-5, *Chaetomium globosum* TW1-1, *Chaetomium madrasense* 375, *Chaetomium globosum* C2F17, *Chaetomium globosum* D38, *Chaetomium globosum* YE3048, *Chaetomium tectifimeti* S104	Displayed antibacterial antifungal, cytotoxicity and no anti-tuberculosis, no anti-inflammatory	38,62,68–70,73,75,78,81
231	 $C_{32}H_{38}N_2O_5$ 20-Dihydrochaetoglobosin A	*Chaetomium globosum*, *Chaetomium globosum* TW1-1	Cytotoxicity	67,76

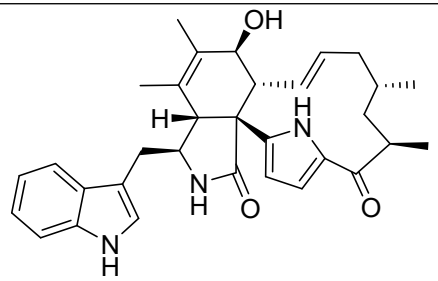
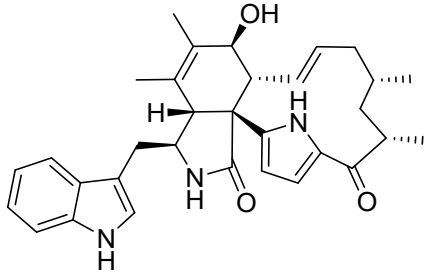
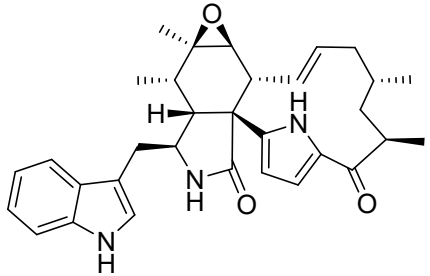
232	 $C_{32}H_{37}N_3O_3$ Armochaetoglobin A	*Chaetomium globosum* TW1-1	Not determined for any relevant biological activity	[79]
233	 $C_{32}H_{42}N_2O_5$ Armochaetoglobin B	*Chaetomium globosum* TW1-1	Cytotoxicity	[79]
234	 $C_{32}H_{40}N_2O_5$ Armochaetoglobin C	*Chaetomium globosum* TW1-1	Cytotoxicity	[79]

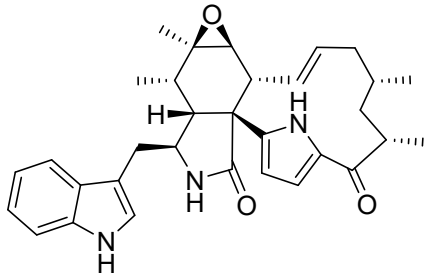
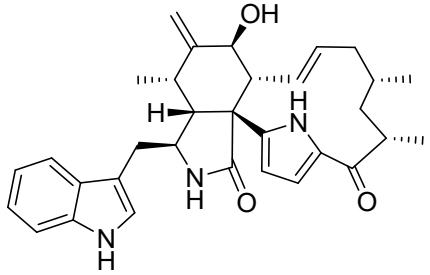
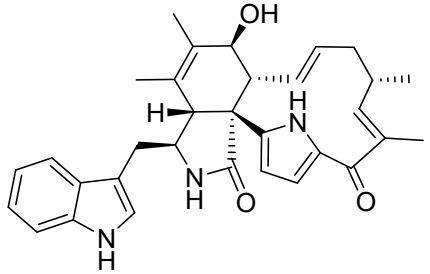
235	 $C_{32}H_{38}N_2O_6$ Armochaetoglobin D	*Chaetomium globosum* TW1-1	Cytotoxicity	[79]
236	 $C_{33}H_{40}N_2O_6$ Armochaetoglobin E	*Chaetomium globosum* TW1-1	Cytotoxicity	[79]
237	 $C_{32}H_{38}N_2O_4$ Armochaetoglobin F	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	[79]

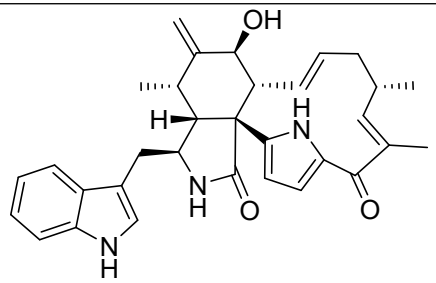
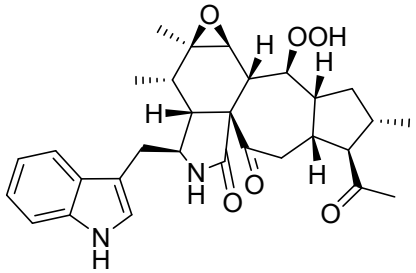
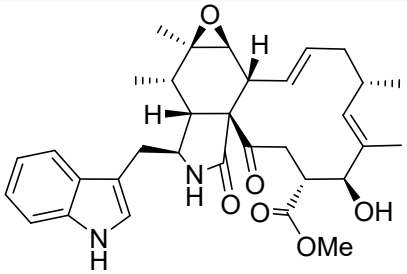
238	 $C_{32}H_{38}N_2O_4$ Armochaetoglobin G	*Chaetomium globosum* TW1-1, *Chaetomium globosum* C2F17	Displayed cytotoxicity and no anti-tuberculosis activity	[38,79]
239	 $C_{32}H_{36}N_2O_5$ Armochaetoglobin H	*Chaetomium globosum* TW1-1	Cytotoxicity	[79]
240	 $C_{32}H_{40}N_2O_4$ Armochaetoglobin I	*Chaetomium globosum* TW1-1, *Chaetomium globosum* YE3048	Displayed no cytotoxicity	[62,79]

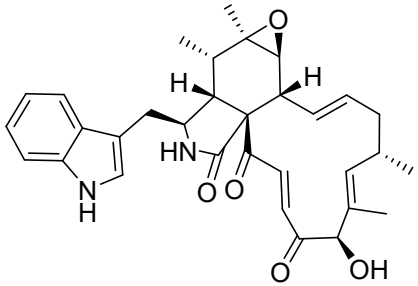
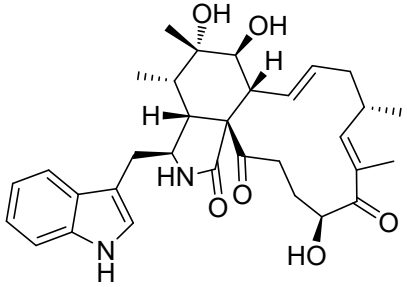
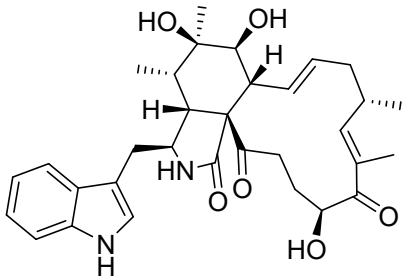
241	 $C_{32}H_{36}N_2O_6$ Armochaetoglobin J	*Chaetomium globosum* TW1-1	Cytotoxicity	[79]
242	 $C_{32}H_{38}N_2O_6$ Chaetoglobosin W	*Chaetomium globosum* TW1-1	Not determined for any relevant biological activity	[79]
243	 $C_{32}H_{35}N_3O_2$ Isochaetoglobosin J	*Chaetomium globosum* TW1-1	Not determined for any relevant biological activity	[79]

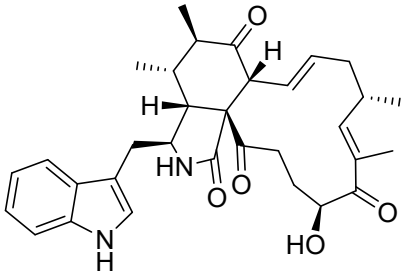
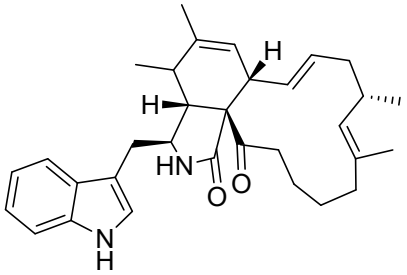
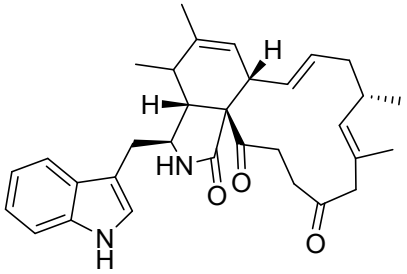
244	 $C_{32}H_{35}N_3O_2$ Armochaetoglobin K	*Chaetomium globosum* TW1-1	Antiviral	[65]
245	 $C_{32}H_{35}N_3O_3$ Armochaetoglobin L	*Chaetomium globosum* TW1-1	Antiviral	[65]
246	 $C_{32}H_{35}N_3O_4$ Armochaetoglobin M	*Chaetomium globosum* TW1-1	Antiviral	[65]

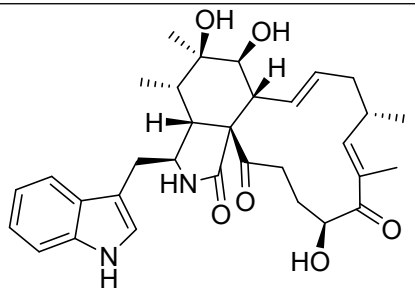
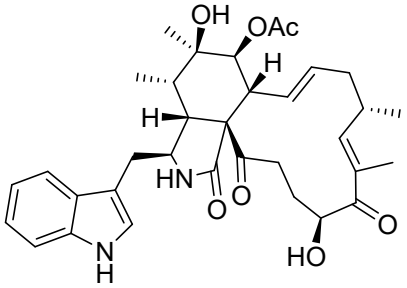
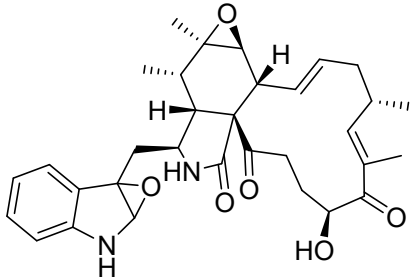
247	 $C_{32}H_{37}N_3O_3$ Armochaetoglobin N	*Chaetomium globosum* TW1-1	Antiviral	[65]
248	 $C_{32}H_{37}N_3O_3$ Armochaetoglobin O	*Chaetomium globosum* TW1-1	Antiviral	[65]
249	 $C_{32}H_{37}N_3O_3$ Armochaetoglobin P	*Chaetomium globosum* TW1-1	Antiviral	[65]

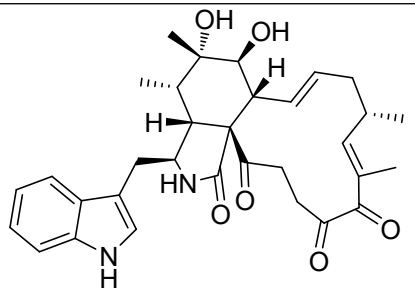
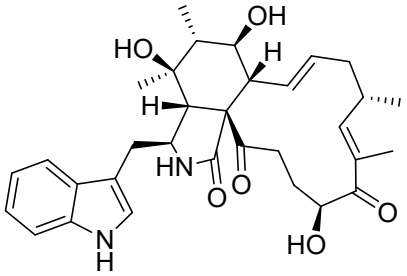
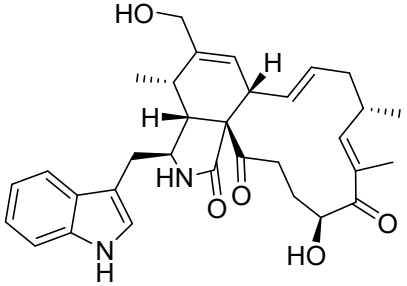
250	 $C_{32}H_{37}N_3O_3$ Armochaetoglobin Q	*Chaetomium globosum* TW1-1	Antiviral	[65]
251	 $C_{32}H_{37}N_3O_3$ Armochaetoglobin R	*Chaetomium globosum* TW1-1	Antiviral	[65]
252	 $C_{32}H_{35}N_3O_3$ Penochalasin B	*Chaetomium globosum* TW1-1, TY1, *Xylaria* sp	Antiviral	[65,72,84]

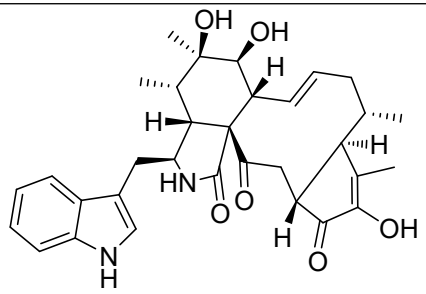
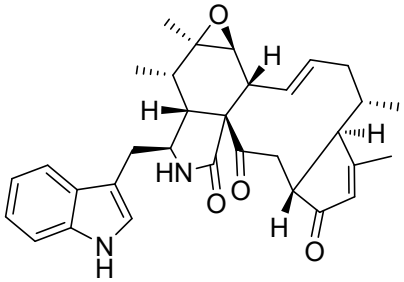
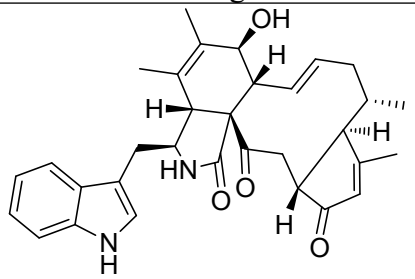
253	 $C_{32}H_{35}N_3O_3$ Penochalasin C	*Chaetomium globosum* TW1-1	Antiviral	[65]
254	 $C_{30}H_{36}N_2O_6$ Armochaeglobine A	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	[60]
255	 $C_{33}H_{40}N_2O_6$ Armochaeglobine B	*Chaetomium globosum* TW1-1	Cytotoxicity	[60]

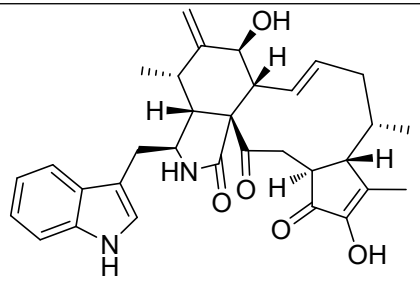
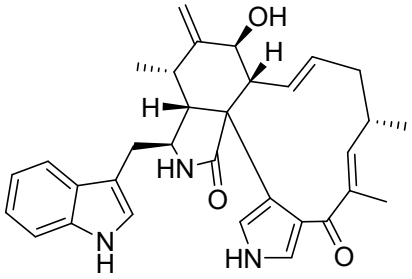
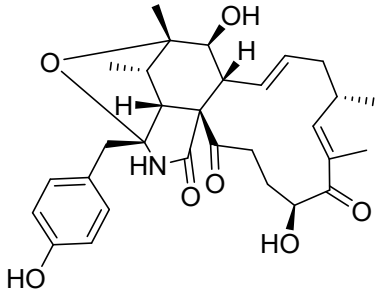
256	 $C_{32}H_{36}N_2O_5$ Armochaeglobine C	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	60
257	 $C_{32}H_{40}N_2O_6$ Cytoglobosin H	*Chaetomium globosum* MCCC 3A00607	Cytotoxicity	71
258	 $C_{32}H_{40}N_2O_6$ Cytoglobosin I	*Chaetomium globosum* MCCC 3A00607	Displayed no cytotoxicity	71

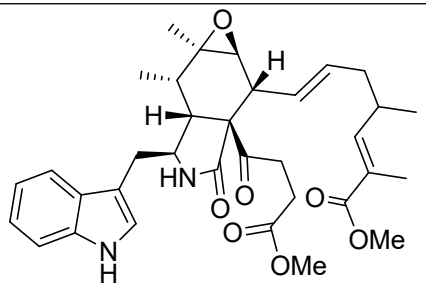
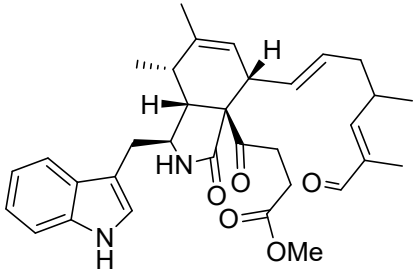
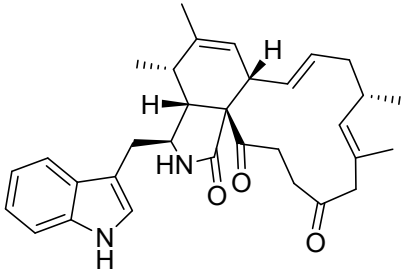
259	 $C_{32}H_{38}N_2O_5$ Chaetoglobosin Y	*Chaetomium globosum* TW1-1, *Chaetomium globosum* C2F17, *Chaetomium tectifimeti* S104	Displayed cytotoxicity and no anti-tuberculosis activity, no antibacterial and no anti-inflammatory	38,75,76
260	 $C_{32}H_{40}N_2O_2$ Prochaetoglobosin I	*Chaetomium globosum* TW1-1, *Chaetomium globosum* YE3048	Antibacterial, antifungal,	62,76
261	 $C_{32}H_{38}N_2O_3$ Prochaetoglobosin II	*Chaetomium globosum* TW1-1, *Chaetomium globosum* YE3048	Antibacterial, antifungal,	62,76

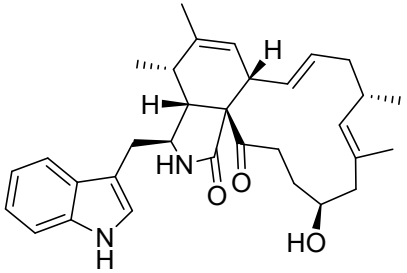
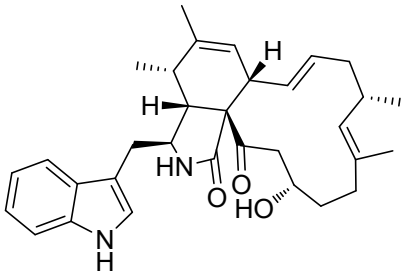
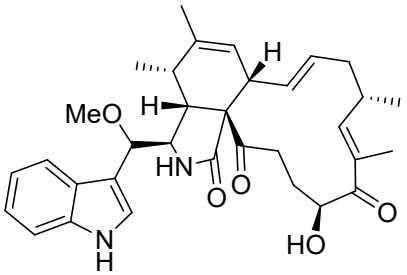
262	 $C_{32}H_{41}N_2O_6$ Armochaetoglobin S	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	76
263	 $C_{34}H_{42}N_2O_7$ 7-*O*-acetylarmochaetoglobin S	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	76
264	 $C_{32}H_{38}N_2O_6$ Armochaetoglobin T	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	76

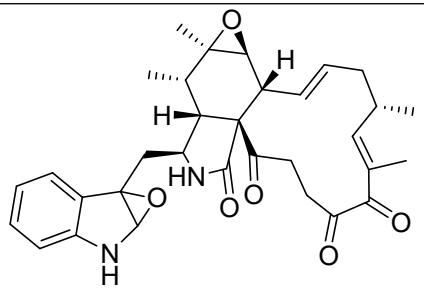
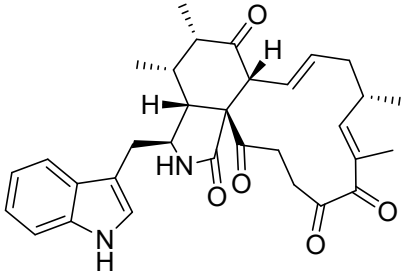
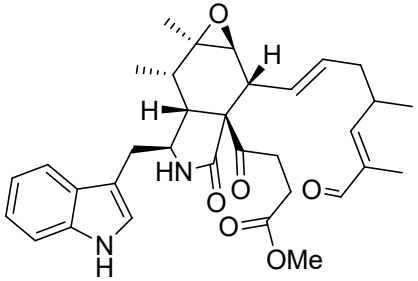
265	 $C_{32}H_{38}N_2O_6$ Armochaetoglobin U	*Chaetomium globosum* TW1-1, *Chaetomium madrasense* 375	Displayed no cytotoxicity	76,78
266	 $C_{32}H_{40}N_2O_6$ Armochaetoglobin V	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	76
267	 $C_{32}H_{38}N_2O_5$ Armochaetoglobin W	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	76

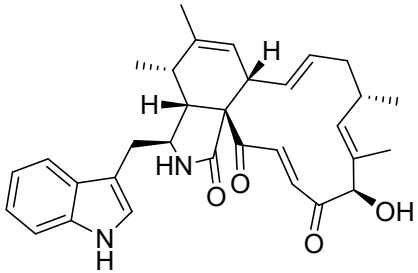
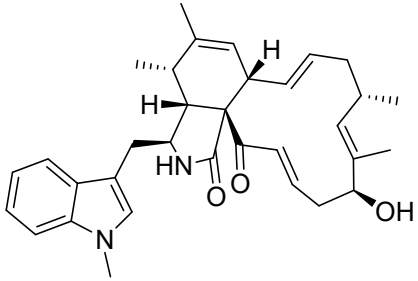
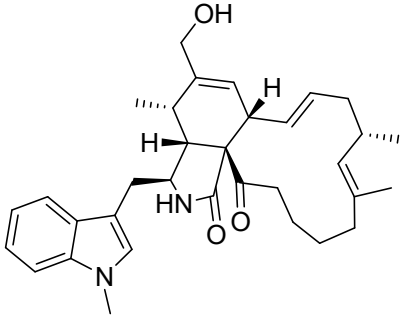
268	 $C_{32}H_{38}N_2O_6$ Armochaetoglobin X	*Chaetomium globosum* TW1-1	Displayed no cytotoxicity	76
269	 $C_{32}H_{36}N_2O_4$ Armochaetoglobin Y	*Chaetomium globosum* TW1-1	Cytotoxicity, antibacterial	70,76
270	 $C_{32}H_{36}N_2O_4$ Armochaetoglobin Z	*Chaetomium globosum* TW1-1	Cytotoxicity	76

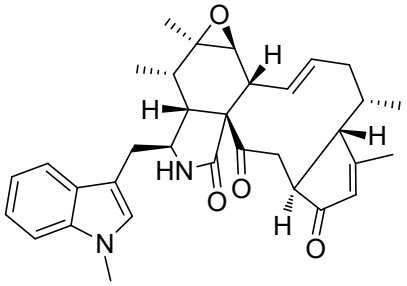
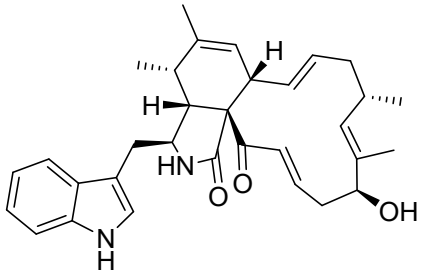
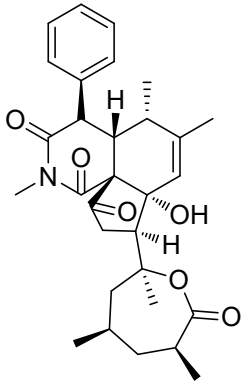
271	 $C_{32}H_{36}N_2O_5$ Cytoglobosin A_b	*Chaetomium globosum* SNSHI-5, *Chaetomium madrasense* 375	Displayed no cytotoxicity	68,69,78
272	 $C_{32}H_{35}N_3O_3$ Isochaetoglobosin D_b	*Chaetomium globosum* SNSHI-5	Cytotoxicity	68,69
273	 $C_{30}H_{37}NO_7$ Armochaetoglasin A	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82

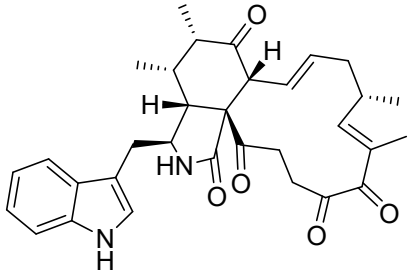
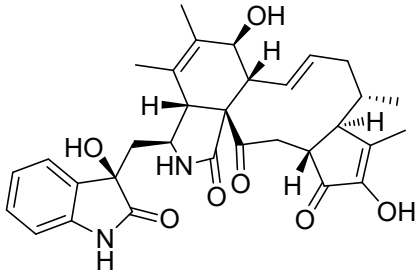
274	 $C_{34}H_{42}N_2O_7$ Armochaetoglasin B	*Chaetomium globosum* TW1-1	Displayed cytotoxicity and no antibacterial	82
275	 $C_{33}H_{40}N_2O_5$ Armochaetoglasin C	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82
276	 $C_{32}H_{38}N_2O_3$ Armochaetoglasin D	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82

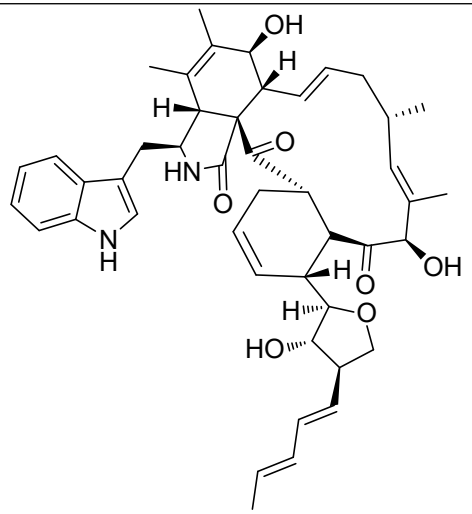
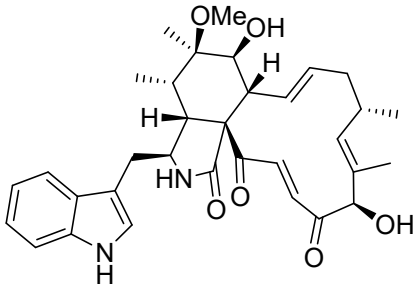
277	 $C_{32}H_{40}N_2O_3$ Armochaetoglasin E	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82
278	 $C_{32}H_{40}N_2O_3$ Armochaetoglasin F	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82
279	 $C_{33}H_{40}N_2O_5$ Armochaetoglasin G	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82

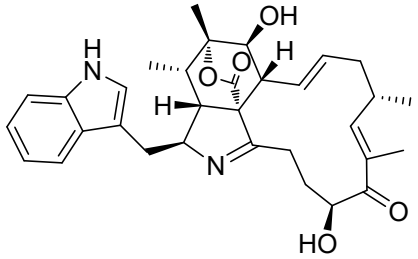
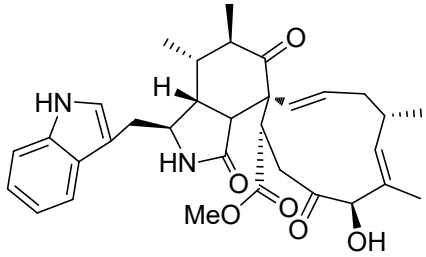
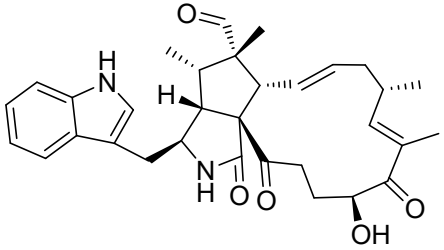
280	 $C_{32}H_{36}N_2O_6$ Armochaetoglasin H	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82
281	 $C_{32}H_{36}N_2O_5$ Armochaetoglasin I	*Chaetomium globosum* TW1-1, *Chaetomium tectifimeti* S104	Displayed cytotoxicity and no antibacterial, no anti-inflammatory	75,82
282	 $C_{33}H_{40}N_2O_6$ Armochaetoglobin E	*Chaetomium globosum* TW1-1	Displayed neither cytotoxicity nor antibacterial	82

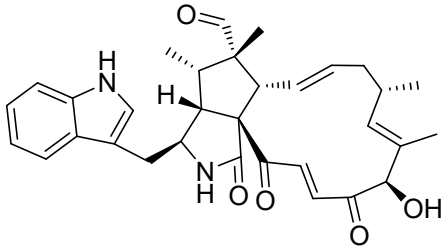
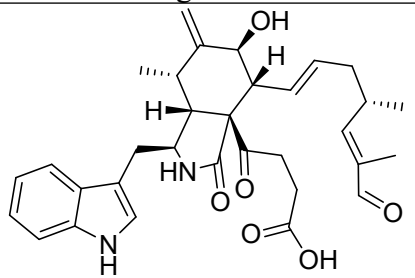
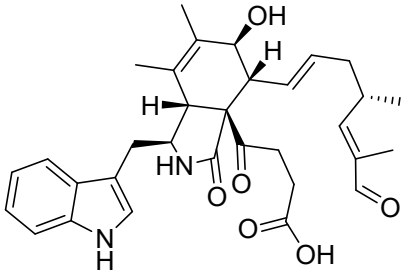
283	 $C_{32}H_{36}N_2O_4$ Chaetoglobosin J	*Chaetomium globosum* TW1-1, *Chaetomium globosum* kz-19	Displayed cytotoxicity and no antibacterial	39,82
284	 $C_{33}H_{40}N_2O_3$ Armochaetoglosin A	*Chaetomium globosum* TW1-1	Antibacterial	70
285	 $C_{33}H_{42}N_2O_3$ Armochaetoglosin B	*Chaetomium globosum* TW1-1	Antibacterial	70

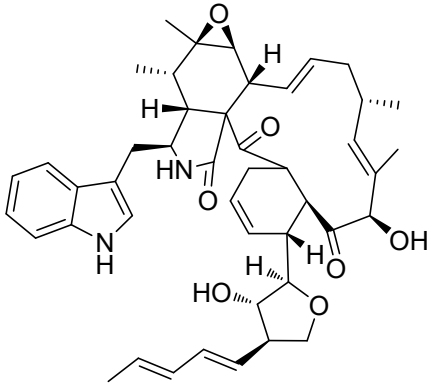
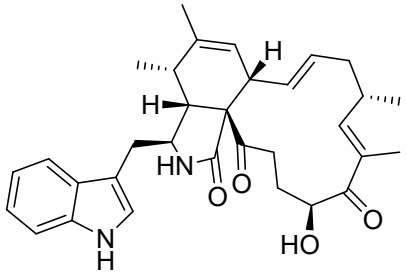
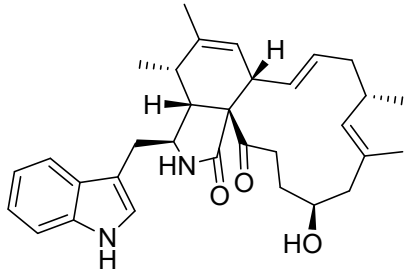
286	 $C_{33}H_{38}N_2O_4$ Armochaetoglosin C	*Chaetomium globosum* TW1-1	Antibacterial	70
287	 $C_{32}H_{38}N_2O_3$ Chaetoglobosin T	*Chaetomium globosum TW1-1*	Antibacterial	70
288	 $C_{30}H_{37}NO_6$ Chamiside A	*Chaetomium nigricolor* F5	Antibacterial	85

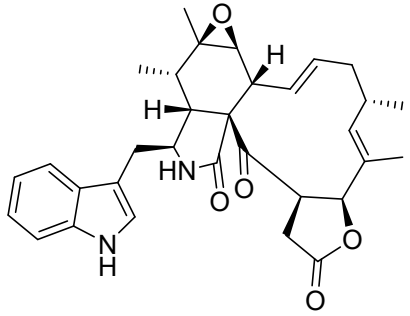
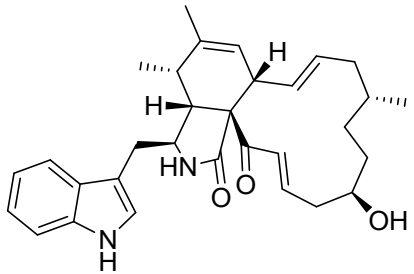
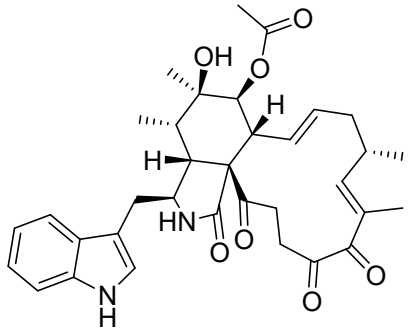
289	 $C_{32}H_{36}N_2O_5$ Chaetomadrasin A	*Chaetomium madrasense* 375	Cytotoxicity	[78]
290	 $C_{32}H_{36}N_2O_7$ Chaetomadrasin B	*Chaetomium madrasense* 375	Cytotoxicity	[78]

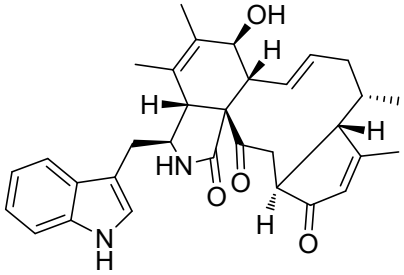
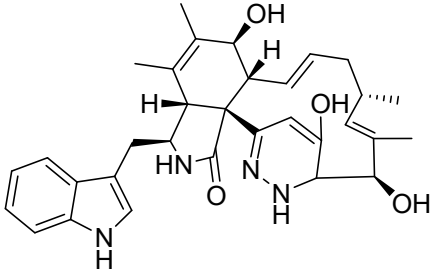
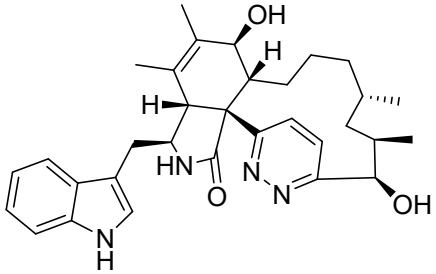
291	 $C_{45}H_{54}N_2O_7$ Aureochaeglobosin B	*Chaetomium globosum* C2F17	Displayed neither cytotoxicity nor anti-tuberculosis activity	[38]
292	 $C_{33}H_{40}N_2O_6$ 6-*O*-methyl-chaetoglobosin Q	*Chaetomium globosum* C2F17	Not determined for any relevant biological activity	[38]

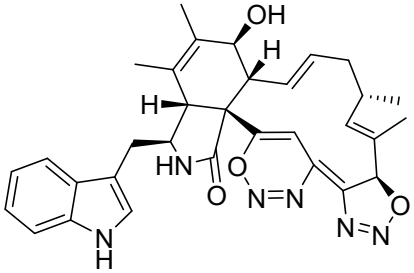
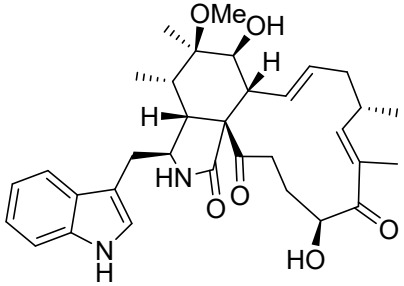
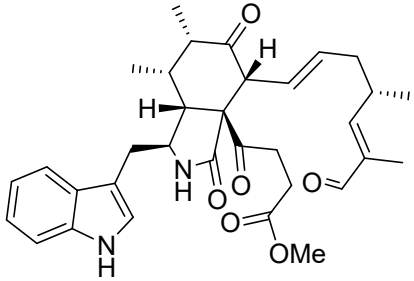
293	 $C_{32}H_{38}N_2O_5$ Pchaeglobolactone A	*Chaetomium globosum* P2-2-2	Cytotoxicity	[86]
294	 $C_{33}H_{40}N_2O_6$ Spiropchaeglobosin A	*Chaetomium globosum* P2-2-2	Cytotoxicity	[86]
295	 $C_{32}H_{38}N_2O_5$ Pchaeglobosal A	*Chaetomium globosum* P2-2-2	Cytotoxicity	[86]

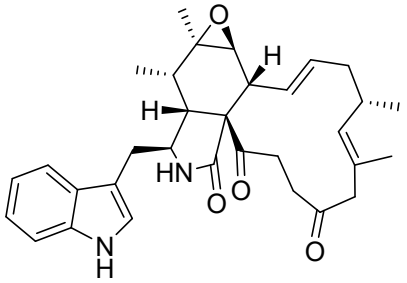
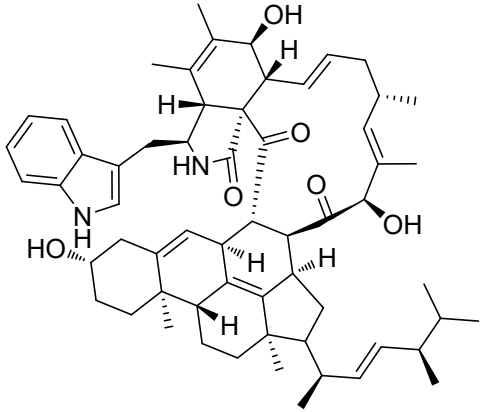
296	 $C_{32}H_{36}N_2O_5$ Pchaeglobosal B	*Chaetomium globosum* P2-2-2	Cytotoxicity	86
297	 $C_{32}H_{38}N_2O_6$ Salchaetoglobosin A	*Chaetomium globosum* D38	Displayed cytotoxicity but no anti-inflammatory	73
298	 $C_{32}H_{38}N_2O_6$ Salchaetoglobosin B	*Chaetomium globosum* D38	Displayed neither cytotoxicity nor anti-inflammatory	73

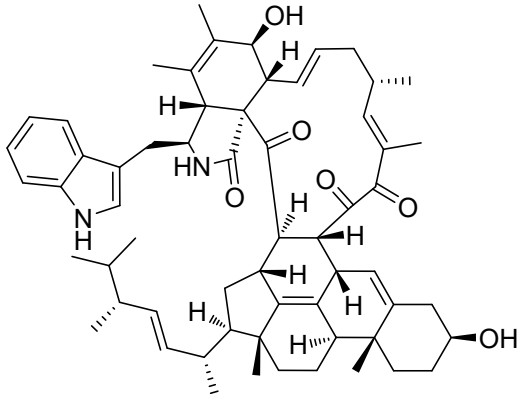
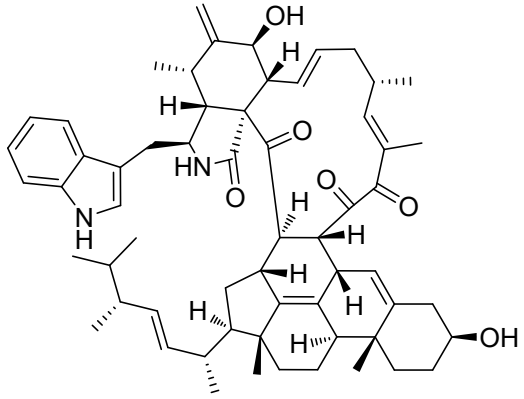
299	 $C_{45}H_{54}N_2O_7$ Aureochaeglobosin A	*Chaetomium globosum* YE3048	Antibacterial, antifungal,	62
300	 $C_{32}H_{38}N_2O_4$ Armochaetoglobosin G	*Chaetomium globosum* kz-19	Cytotoxicity	39
301	 $C_{32}H_{40}N_2O_3$ Penochalasin J	*Chaetomium globosum* kz-19	Cytotoxicity	39

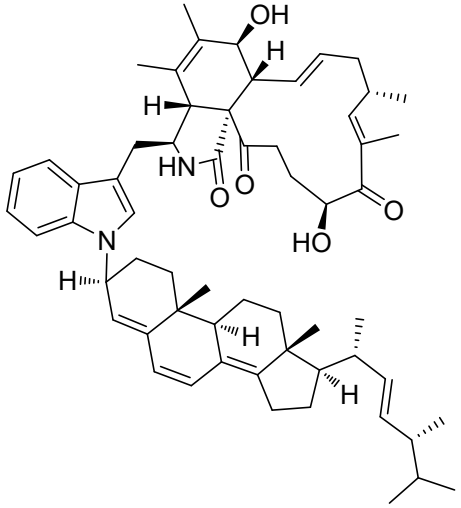
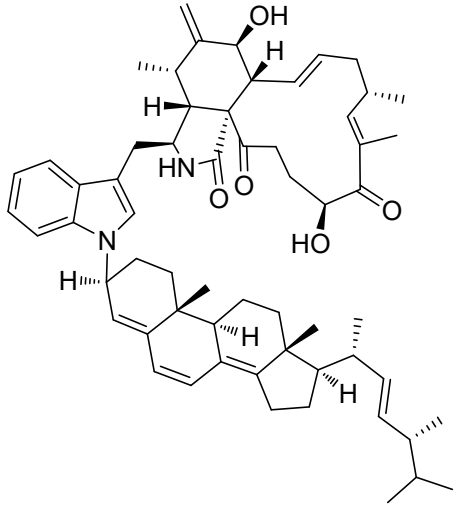
302	 $C_{32}H_{36}N_2O_5$ Phychaetoglobin A	*Chaetomium globosum* kz-19	Cytotoxicity	[39]
303	 $C_{31}H_{38}N_2O_3$ Phychaetoglobin B	*Chaetomium globosum* kz-19	Cytotoxicity	[39]
304	 $C_{34}H_{40}N_2O_7$ Phychaetoglobin C	*Chaetomium globosum* kz-19	Cytotoxicity	[39]

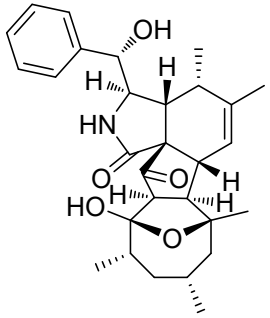
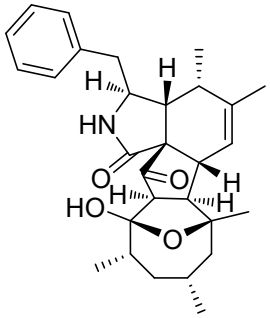
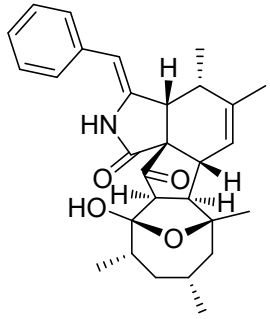
305	 $C_{32}H_{36}N_2O_4$ Phychaetoglobin D	*Chaetomium globosum* kz-19	Cytotoxicity	[39]
306	 $C_{32}H_{38}N_4O_4$ Chaetoglobosin B_1	*Chaetomium madrasense* 375	Cytotoxicity	[74]
307	 $C_{32}H_{40}N_4O_3$ Chaetoglobosin B_2	*Chaetomium madrasense* 375	Displayed no cytotoxicity	[74]

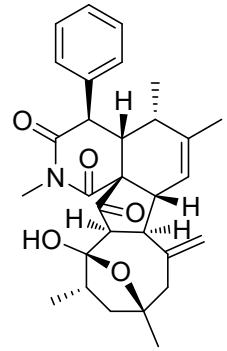
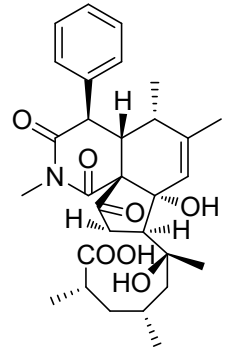
308	 $C_{32}H_{34}N_6O_4$ Chaetoglobosin B_3	*Chaetomium madrasense* 375	Displayed no cytotoxicity	74
309	 $C_{33}H_{42}N_2O_6$ Rubichaetoglobin A	*Chaetomium tectifimeti* S104	Displayed no cytotoxicity, no antibacterial, no anti-inflammatory	75
310	 $C_{33}H_{40}N_2O_6$ Armochaetoglasin L	*Chaetomium globosum*	Displayed anti-inflammatory and no antibacterial	87

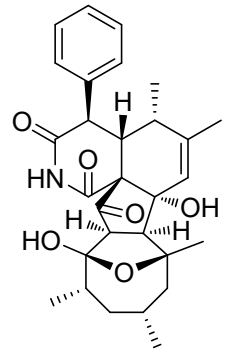
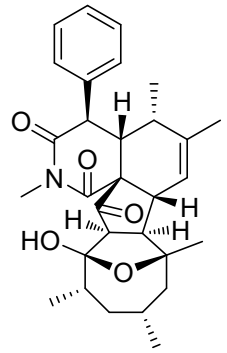
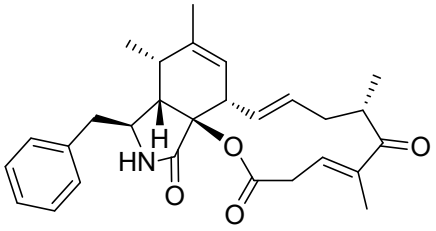
311	 $C_{32}H_{38}N_2O_4$ Armochaetoglasin M	*Chaetomium globosum*	Displayed anti-inflammatory and no antibacterial	87
312	 $C_{60}H_{78}N_2O_6$ Ergochaeglobosin A	*Chaeglobosin globosum* P2-2-2	Immunosuppressive, cytotoxicity	88

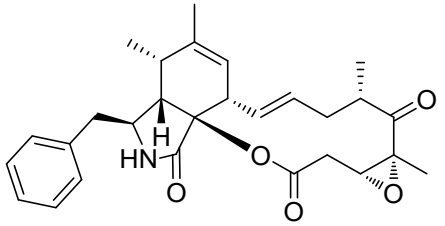
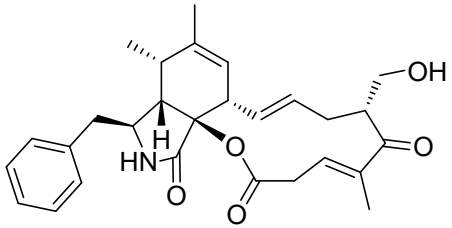
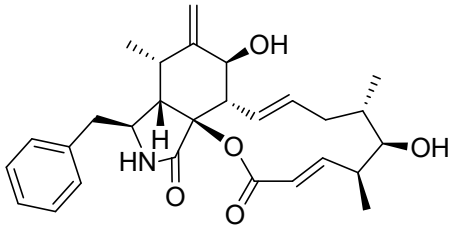
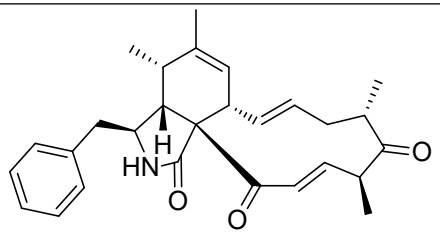
313	 $C_{60}H_{76}N_2O_6$ Ergochaeglobosin B	*Chaeglobosin globosum* P2-2-2	Immunosuppressive	[88]
314	 $C_{60}H_{76}N_2O_6$ Ergochaeglobosin C	*Chaeglobosin globosum* P2-2-2	Immunosuppressive	[88]

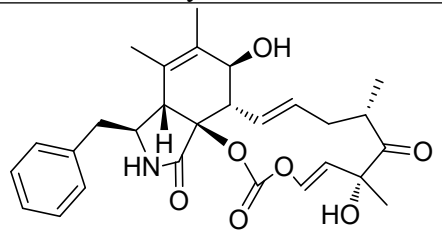
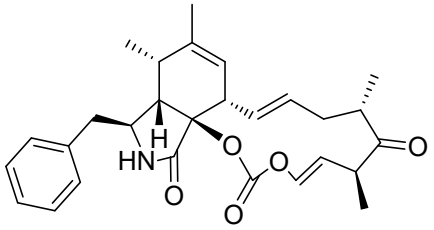
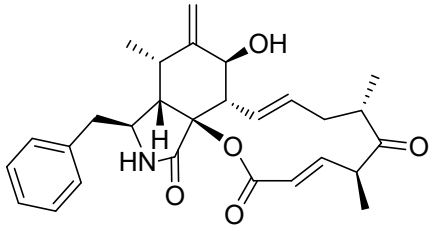
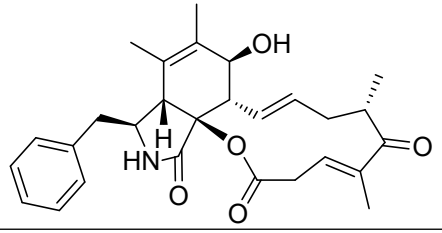
315	 $C_{60}H_{78}N_2O_5$ Ergochaeglobosin D	*Chaeglobosin globosum* P2-2-2	Immunosuppressive	[88]
316	 $C_{60}H_{78}N_2O_5$ Ergochaeglobosin E	*Chaeglobosin globosum* P2-2-2	Immunosuppressive	[88]

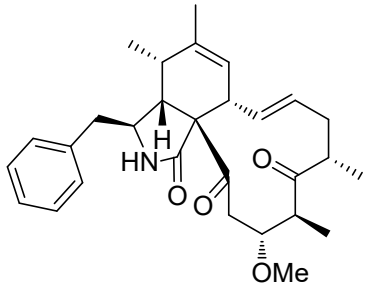
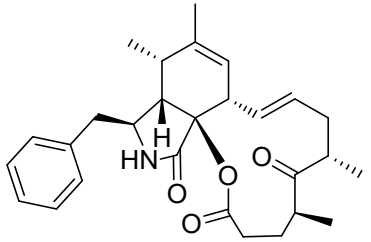
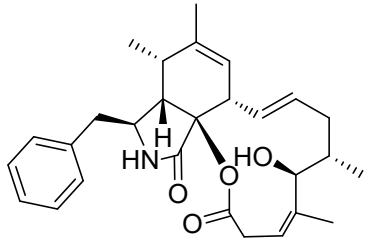
317	 $C_{29}H_{37}NO_5$ Chamiside B	*Chaetomium nigricolor* F5	Displayed phytotoxicity, no antibacterial, no anticandidal	[89]
318	 $C_{29}H_{37}NO_4$ Chamiside C	*Chaetomium nigricolor* F5	Displayed no antibacterial, no anticandidal	[89]
319	 $C_{29}H_{35}NO_4$ Chamiside D	*Chaetomium nigricolor* F5	Displayed no antibacterial, no anticandidal	[89]

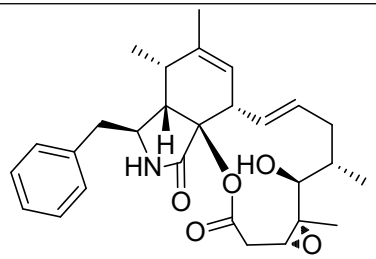
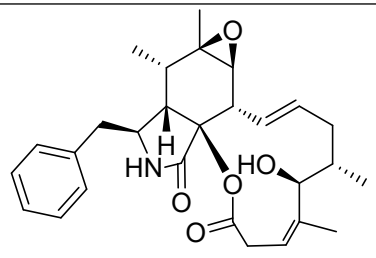
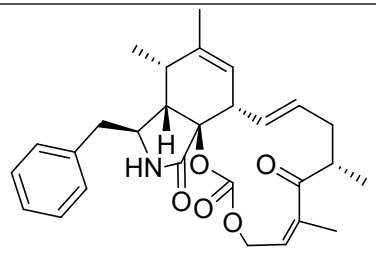
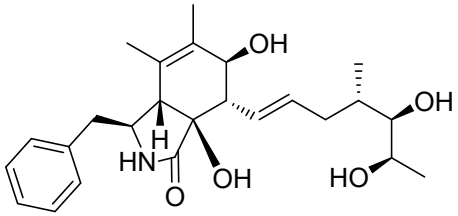
320	 $C_{30}H_{35}NO_5$ Chamiside E	*Chaetomium nigricolor* F5	Displayed no antibacterial, no anticandidal	89
321	 $C_{30}H_{39}NO_7$ Chamiside F	*Chaetomium nigricolor* F5	Displayed no phytotoxicity, no antibacterial, no anticandidal	89

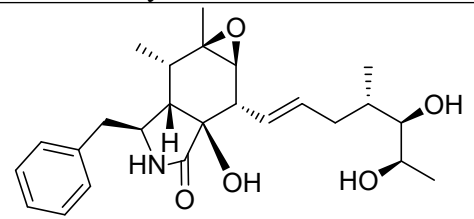
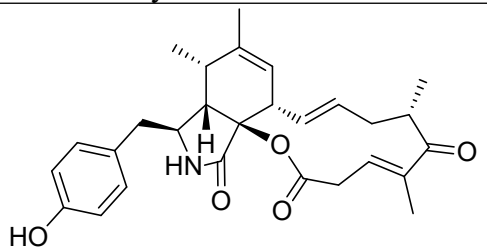
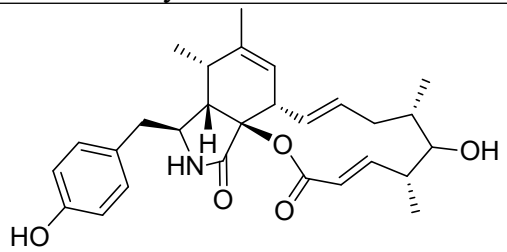
322	 $C_{29}H_{35}NO_6$ Chaetoconvosin C	*Chaetomium nigricolor* F5	Displayed no antibacterial, no anticandidal	[89]
323	 $C_{30}H_{37}NO_5$ Chaetoconvosin D	*Chaetomium nigricolor* F5	Displayed no antibacterial, no anticandidal	[89]
324	 $C_{28}H_{33}NO_4$ Arthriniumnin A	*Arthrinium arundinis* ZSDS1-F3, *Arthrinium arundinis* DJ-13	Displayed neither cytotoxicity nor antituberculosis	[31,32]

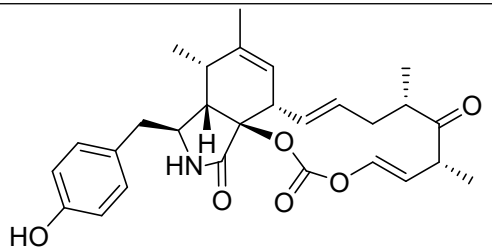
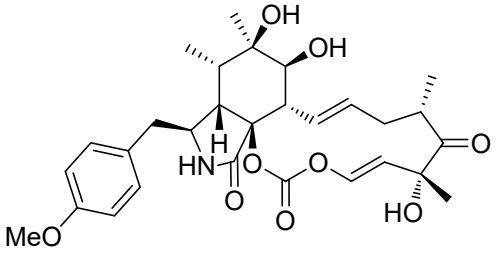
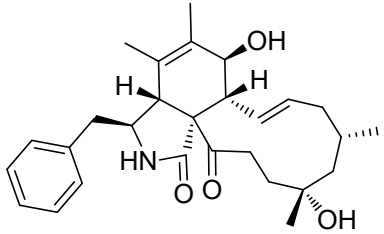
325	 $C_{28}H_{33}NO_4$ Arthriniumnin B	*Arthrinium arundinis* ZSDS1-F3, *Arthrinium arundinis* DJ-13	Displayed neither cytotoxicity nor antituberculosis	[31,32]
326	 $C_{28}H_{33}NO_5$ Arthriniumnin C	*Arthrinium arundinis* ZSDS1-F3, *Arthrinium arundinis* DJ-13	Not determined for any relevant biological activity	[31,32]
327	 $C_{28}H_{35}NO_5$ Arthriniumnin D	*Arthrinium arundinis* ZSDS1-F3, *Arthrinium arundinis* DJ-13	Displayed neither cytotoxicity nor antituberculosis	[31,32]
328	 $C_{28}H_{33}NO_3$	*Arthrinium arundinis* ZSDS1-F3, *Daldinia sacchari*	Displayed neither cytotoxicity nor antituberculosis, but showed antimicrobial effect	[31,90]

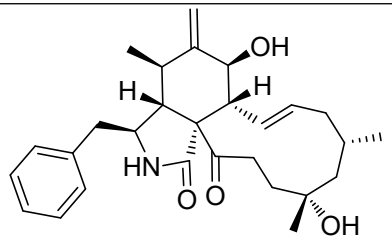
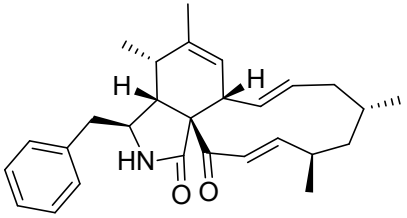
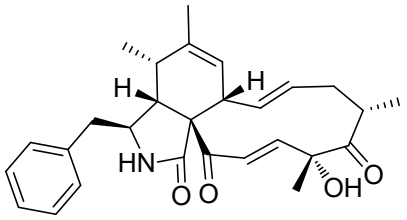
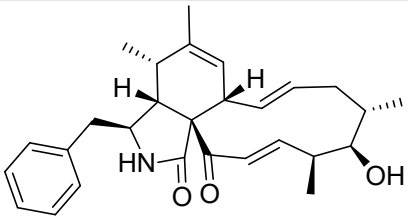
	Ketocytochalasin			
329	 $C_{28}H_{33}NO_7$ Cytochalasin K	*Arthrinium arundinis* ZSDS1-F3, *Dematophora necatrix* (MUCL 57709)	Displayed cytotoxicity and no antituberculosis	31,91
330	 $C_{28}H_{33}NO_5$ Cytocalasin Z_{16}	*Arthrinium arundinis* ZSDS1-F3	Displayed neither cytotoxicity nor antituberculosis	31
331	 $C_{28}H_{33}NO_5$ 10-phenyl-[12]-cytochalasin Z_{16}	*Arthrinium arundinis* ZSDS1-F3	Displayed cytotoxicity and no antituberculosis	31
332		*Arthrinium arundinis* ZSDS1-F3	Displayed neither cytotoxicity nor antituberculosis	31

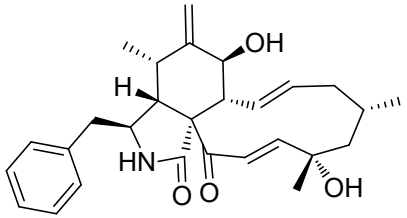
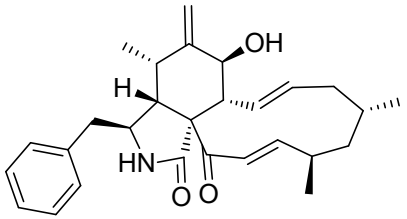
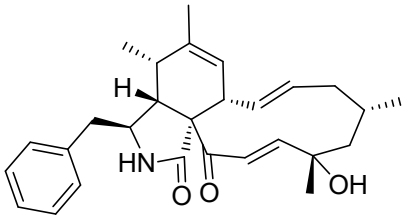
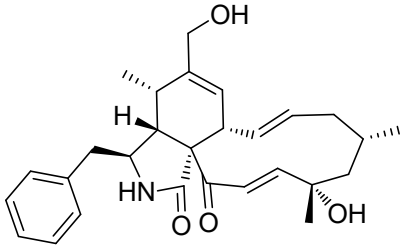
	$C_{28}H_{33}NO_5$ Cytotochalasin Z17			
333	 $C_{29}H_{37}NO_4$ Arundisin A	*Arthrinium arundinis* DJ-13	Displayed cytotoxicity, no antibacterial and no antifungal	[32]
334	 $C_{28}H_{35}NO_4$ Arundisin B	*Arthrinium arundinis* DJ-13	Displayed cytotoxicity, no antibacterial and no antifungal	[32]
335	 $C_{28}H_{35}NO_4$ Arundisin C	*Arthrinium arundinis* DJ-13	Displayed cytotoxicity, no antibacterial and no antifungal	[32]

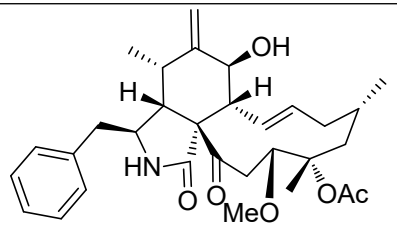
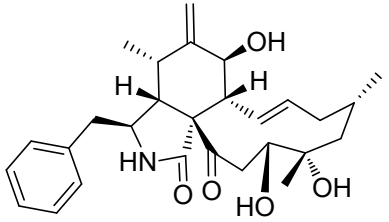
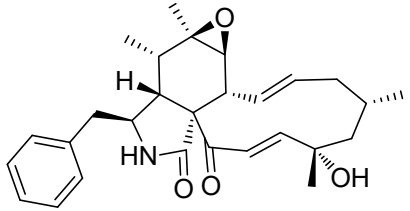
336	 $C_{28}H_{35}NO_5$ Arundisin D	*Arthrinium arundinis* DJ-13	Displayed antifungal, no cytotoxicity, and no antibacterial	[32]
337	 $C_{28}H_{35}NO_5$ Arundisin E	*Arthrinium arundinis* DJ-13	Not determined for any relevant biological activity	[32]
338	 $C_{28}H_{33}NO_5$ Arundisin F	*Arthrinium arundinis* DJ-13	Displayed antibacterial, no cytotoxicity, and no antifungal	[32]
339		*Arthrinium arundinis* DJ-13	Not determined for any relevant biological activity	[32]

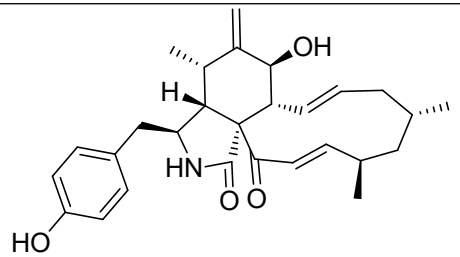
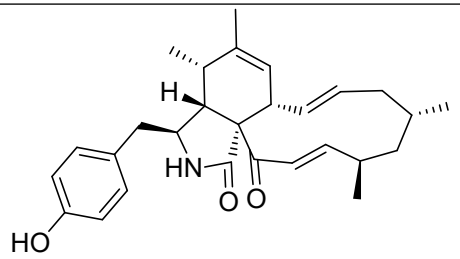
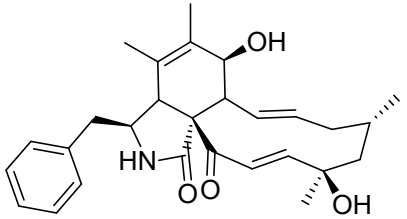
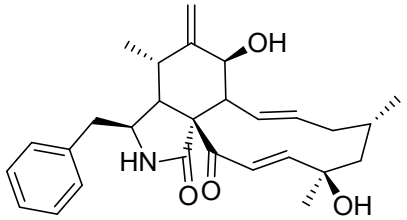
	$C_{25}H_{35}NO_5$ Cytochalasin Z12			
340	 $C_{25}H_{35}NO_5$ Cytochalasin Z21	*Arthrinium arundinis* DJ-13	Not determined for any relevant biological activity	[32]
341	 $C_{28}H_{33}NO_5$ Cytochalasin Z24	*Eutypella* sp. D-1	Cytotoxicity	[92,93]
342	 $C_{28}H_{35}NO_5$ Cytochalasin Z25	*Eutypella* sp. D-1	Cytotoxicity	[92,93]

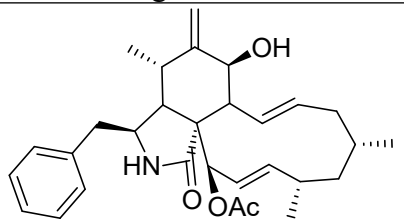
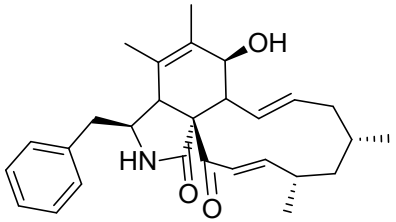
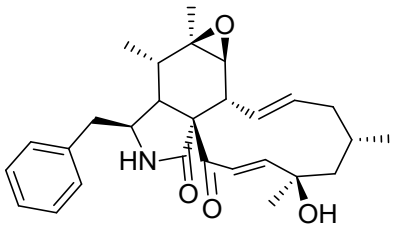
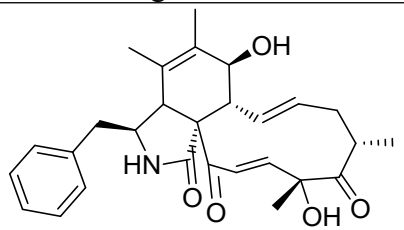
343	 $C_{28}H_{33}NO_6$ Cytochalasin Z26	*Eutypella* sp. D-1	Displayed no cytotoxicity	92,93
344	 $C_{29}H_{37}NO_9$ Scoparasin B	*Eutypella* sp. D-1	Cytotoxicity	92,93
345	 $C_{28}H_{37}NO_4$ [11]-cytochalasa- 5(6),13-diene-1,21-dione-7,18-dihydroxy-16,18-dimethyl-10-phenyl-(7*S**,13*E*,16*S**,18*R**)	*Daldinia eschscholtzii* HJ001	Displayed no cytotoxicity but showed antibacterial	94

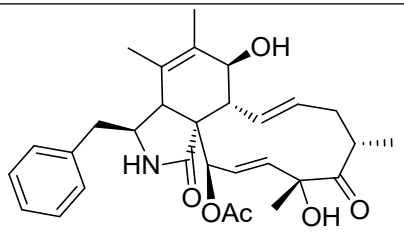
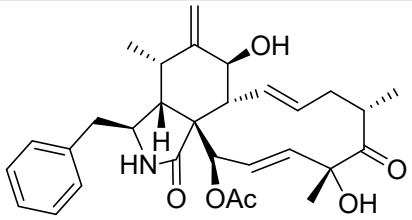
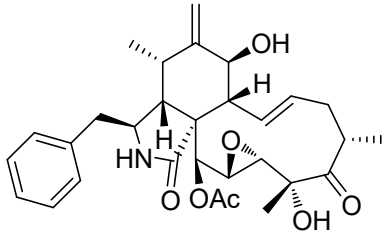
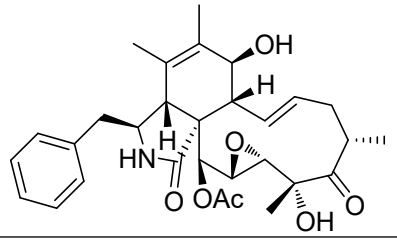
346	 $C_{28}H_{37}NO_4$ [11]-cytochalasa-6(12),13-diene-1,21-dione-7,18-dihydroxy 16,18-dimethyl-10-phenyl-(7*S**,13*E*,16*S**,18*R**)	*Daldinia eschscholtzii* HJ001, *Daldinia concentrica*, *Hypoxylon fragiforme*	Displayed cytotoxicity, no antibacterial, nematicidal, and antifungal	6,9,94,95
347	 $C_{28}H_{35}NO_2$ Saccalasin A	*Daldinia sacchari*	Displayed cytotoxicity, no antimicrobial effect, antibiofilm	6,53,90
348	 $C_{28}H_{33}NO_4$ Saccalasin B	*Daldinia sacchari*	Displayed cytotoxicity and antimicrobial effects	90
349		*Daldinia sacchari*, *Daldinia eschscholtzii* BBH42278	Displayed cytotoxicity antimicrobial effects, antibiofilm	6,53,90

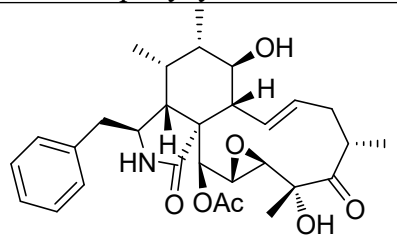
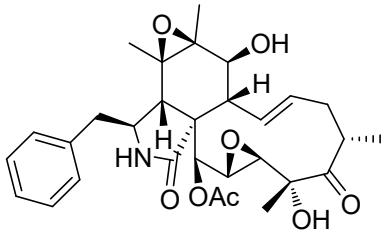
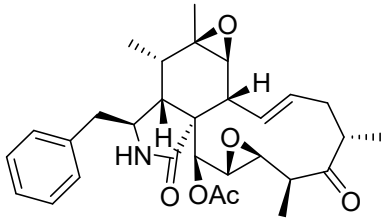
	$C_{28}H_{35}NO_3$ (16*S*,17*R*,18*S*)-16,18-dimethyl-17-hydroxy-10-phenyl[11]cytochalasa-6,13,19-triene 1,21-dione			
350	 $C_{28}H_{35}NO_4$	*Daldinia eschscholtzii* BBH42278	Antibacterial, antibiofilm, nematicidal, antifungal, and actin disruption effect	6,9,53
351	 $C_{28}H_{35}NO_3$	*Daldinia eschscholtzii* BBH42278	Antibacterial, antibiofilm actin disruption effect	6,53
352	 $C_{28}H_{35}NO_3$	*Daldinia eschscholtzii* BBH42278	Antibacterial, antibiofilm actin disruption effect	6,53
353	 $C_{28}H_{35}NO_4$	*Daldinia eschscholtzii* BBH42278	Antibacterial, antibiofilm actin disruption effect	6,53

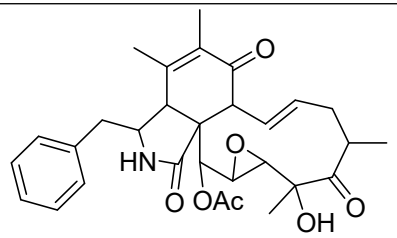
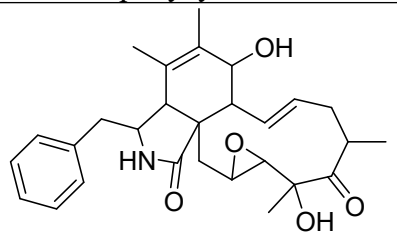
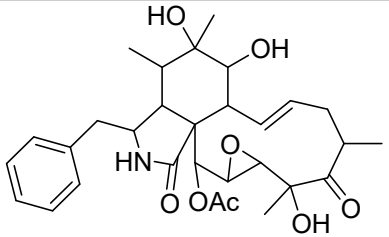
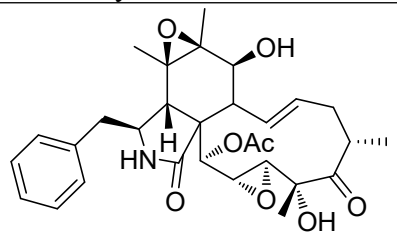
354	 $C_{31}H_{41}NO_6$ Daldinin	*Daldinia concentrica*	Cytotoxicity	[95]
355	 $C_{28}H_{37}NO_5$ [11]-cytochalasa-6(12),13-diene-1,21-dione-7,18,19-trihy droxy-16,18- dimethyl-10-phenyl-(7*S**,13*E*,16*S**,18*S**,19*R**)	*Daldinia concentrica*	Cytotoxicity, nematicidal, and antimicrobial	[9,95]
356	 $C_{28}H_{35}NO_4$ (7*S*,13*E*,16*S*,18*S*,19*E*)16,18-dimethyl-6,7epoxy-18-hydroxy-10-phenyl-[11]-cytochalasa–13,19-diene-1,21-dione	*Daldinia eschscholtzii*	Actin disruption effect	[6]

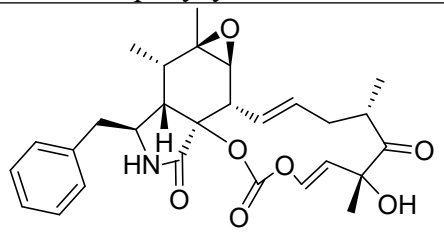
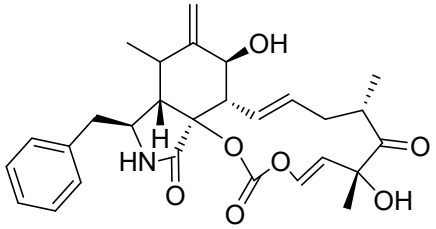
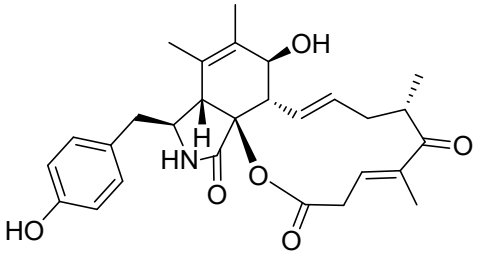
357	 $C_{28}H_{35}NO_4$ Phenochalasin C	*Daldinia kretzschmarioides*, *H. cf. kretzschmarioides*	Antibacterial, antibiofilm actin disruption effect	6,53
358	 $C_{28}H_{35}NO_3$ Phenochalasin D	*Daldinia kretzschmarioides*, *H. cf. kretzschmarioides*	Antibacterial and antibiofilm	6
359	 $C_{28}H_{35}NO_4$ Fragiformin A	*Hypoxylon fragiforme*, H. *howeanum*	Nematicidal, and antimicrobial	9
360	 $C_{28}H_{35}NO_4$	*Hypoxylon fragiforme*, H. *howeanum*	Nematicidal, and antimicrobial	9,49

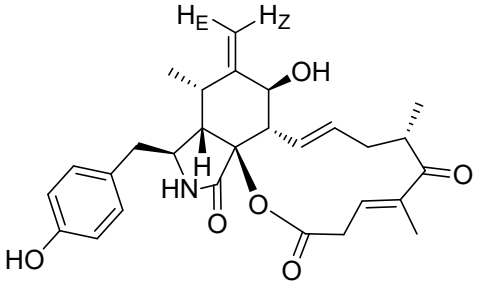
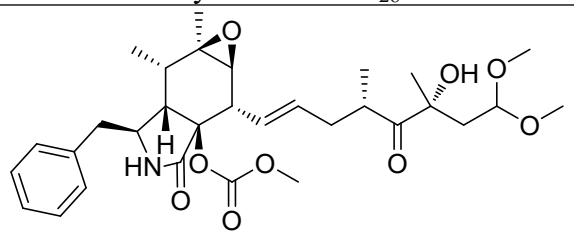
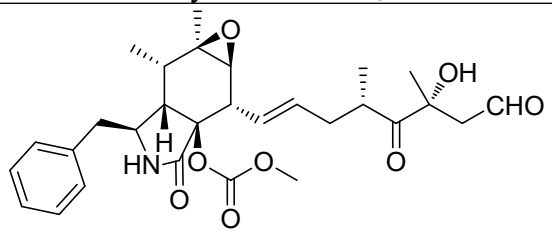
	Fragiformin B			
361	 $C_{30}H_{39}NO_4$ L-696,474	*Hypoxylon fragiforme*	Antibacterial and antibiofilm	[53]
362	 $C_{28}H_{35}NO_4$ Fragiformin C	*Hypoxylon fragiforme*	Actin disruption effect	[6]
363	 $C_{28}H_{35}NO_4$ Fragiformin D	*Hypoxylon fragiforme*	Actin disruption effect	[6]
364	 $C_{28}H_{35}NO_5$	*Hypoxylon fuscum* complex	Actin disruption effect	[96]

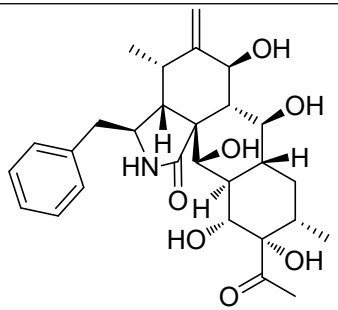
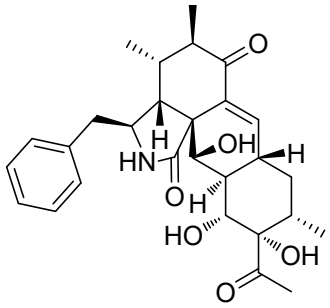
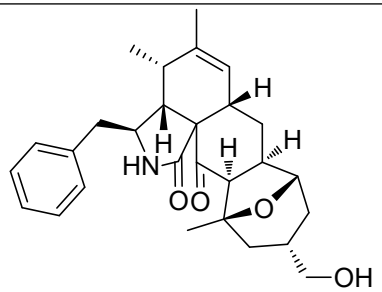
	Pseudofuscochalasin A			
365	 $C_{30}H_{37}NO_5$ Cytochalasin C	*Hypoxylon fuscum* complex, *Rosellinia sanctae-cruciana*, *Xylaria longipes*, *Xylaria arbuscula* GZS74	Cytotoxicity, nematicidal, antimicrobial, and actin disruption effect	9,56,57,96–98
366	 $C_{30}H_{37}NO_6$ Cytochalasin D	*Rosellinia sanctae-cruciana*, *Xylaria longipes*, *Xylaria arbuscula* GZS74	Cytotoxicity	56,57,97,98
367	 $C_{28}H_{33}NO_5$ 19,20-epoxycytochalasin D	*Rosellinia sanctae-cruciana*, *Rosellinia rickii Xylaria arbuscula* GZS74, *Xylaria cf. curta*, *Xylaria* sp, *Xylaria karyophthora* NRRL 66613	Cytotoxicity, antibacterial, antifungal, antibiofilm, actin disruption effect	53,57,84,97–100
368		*Rosellinia sanctae-cruciana*, *Rosellinia rickii Xylaria arbuscula* GZS74, *Xylaria cf. curta, Xylaria karyophthora* NRRL 66613	Cytotoxicity, Antibacterial, antifungal, antibiofilm, actin disruption effect	53,57,97–100

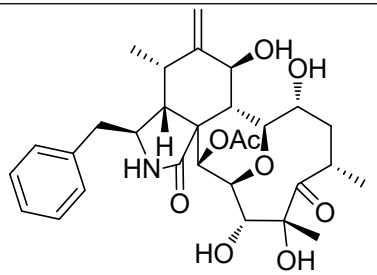
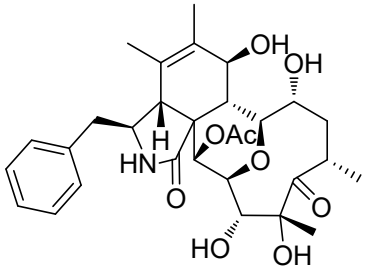
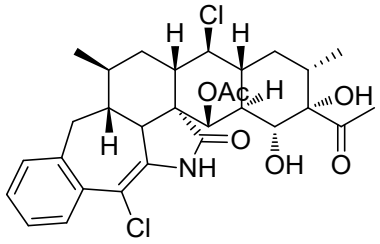
	$C_{30}H_{37}NO_7$ 19,20-epoxycytochalasin C			
369	 $C_{30}H_{39}NO_7$ Jammosporin A	*Rosellinia sanctae-cruciana*	Cytotoxicity	[97,98]
370	 $C_{30}H_{37}NO_8$ 19,20-epoxycytochalasin N	*Rosellinia rickii*, *Xylaria karyophthora* NRRL 66613	Antibacterial, cytotoxicity	[53,100]
371	 $C_{30}H_{37}NO_6$ 18-deoxy-19,20-epoxycytochalasin Q	*Rosellinia rickii*	Antibacterial	[53]

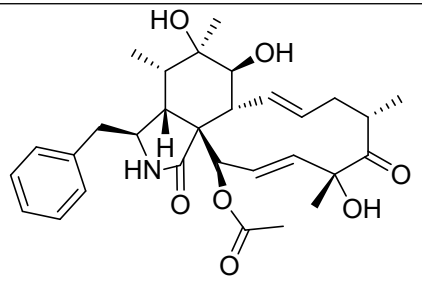
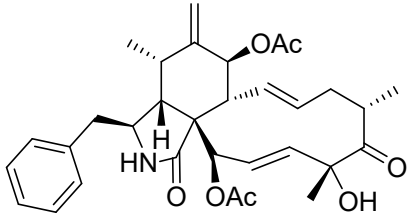
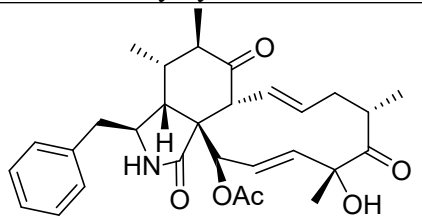
372	 $C_{30}H_{35}NO_7$ 19,20-epoxycytochalasin C	*Rosellinia sanctae-cruciana*	Cytotoxicity	[98]
373	 $C_{28}H_{35}NO_5$ deacetyl 19,20-epoxycytochalasin C	*Rosellinia sanctae-cruciana*	Cytotoxicity	[98]
374	 $C_{30}H_{39}NO_8$ Cytochalasin P1	*Rosellinia sanctae-cruciana, Xylaria karyophthora* NRRL 66613	Cytotoxicity	[98,100]
375	 $C_{30}H_{37}NO_8$	*Rosellinia sanctae-cruciana*	Cytotoxicity	[101]

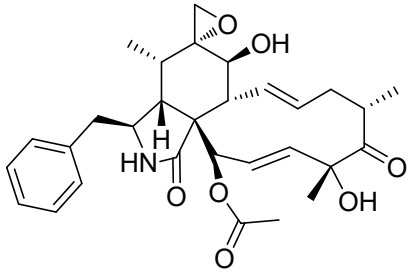
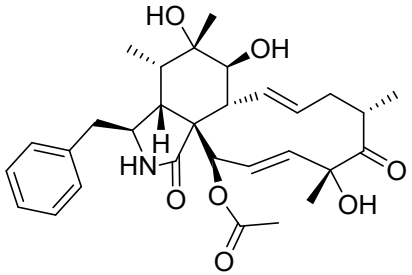
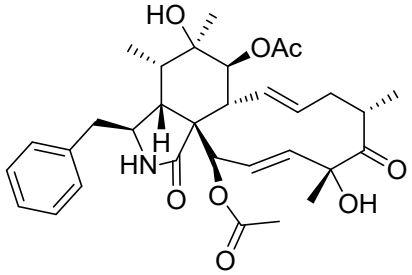
	19,20-epoxycytochalasin N1			
376	 $C_{28}H_{33}NO_7$ Cytochalasin E	*Dematophora necatrix* (MUCL 57709), *Xylaria* sp. XC16	Anti-*Saccharomyces pombe*, with MIC value of 16.8 μM, cytotoxicity, F-actin network disruptors, brine shrimp toxicity, phytotoxicity, antipathogen	91,102
377	 $C_{28}H_{33}NO_7$ $\Delta^{6,12}$-cytochalasin E	*Dematophora necatrix* (MUCL 57709)	Cytotoxicity, F-actin network disruptors	91
378	 $C_{28}H_{33}NO_6$ Cytochalasins Z_{27}	*Xylaria* sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	102

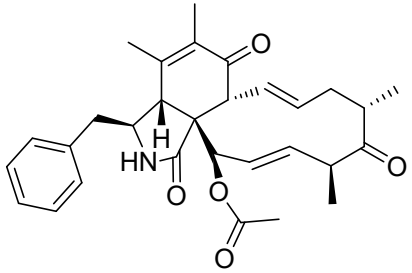
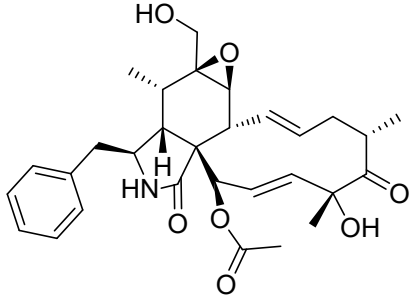
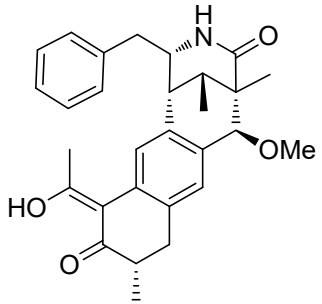
379	 $C_{28}H_{31}NO_6$ Cytochalasins Z_{28}	*Xylaria* sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	[102]
380	 $C_{31}H_{43}NO_9$ Cytochalasin Z_{18}	*Xylaria* sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	[102]
381	 $C_{29}H_{37}NO_8$ *seco*-cytochalasin E	*Xylaria* sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	[102]

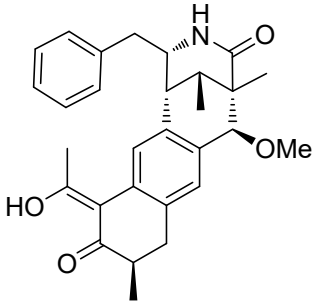
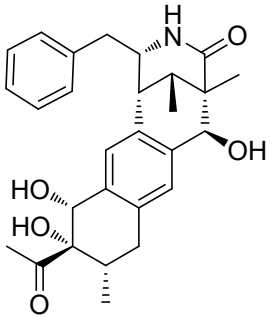
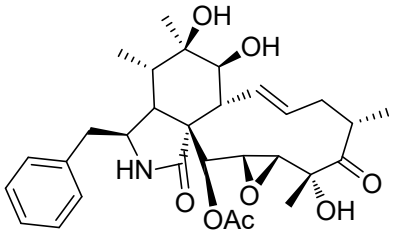
382	 $C_{28}H_{37}NO_7$ Curtachalasin A	*Xylaria curta* E10	Antifungal	[103]
383	 $C_{28}H_{35}NO_6$ Curtachalasin B	*Xylaria curta* E10	Antifungal	[103]
384	 $C_{28}H_{35}NO_4$ Curtachalasin B	*Xylaria striata*	Cytotoxicity	[104]

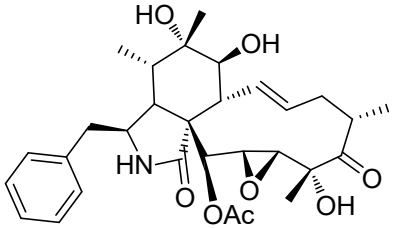
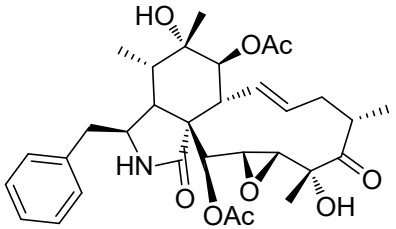
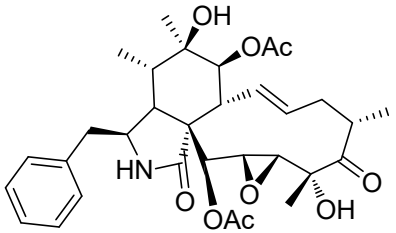
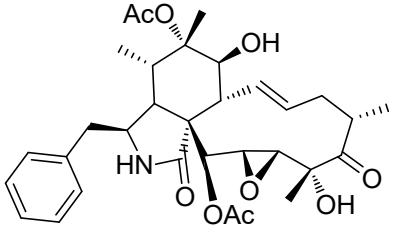
385	 $C_{30}H_{39}NO_9$ Cytochalasin D1	*Xylaria* cf. *curta*	Cytotoxicity	[105]
386	 $C_{30}H_{39}NO_9$ Cytochalasin C1	*Xylaria* cf. *curta*	Cytotoxicity	[105]
387	 $C_{30}H_{35}Cl_2NO_6$ Xylarichalasin A	*Xylaria* cf. *curta*	Cytotoxicity	[106]

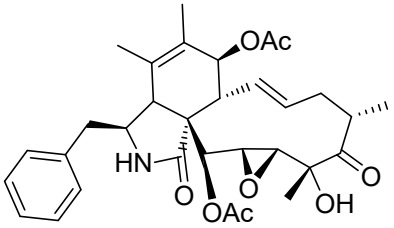
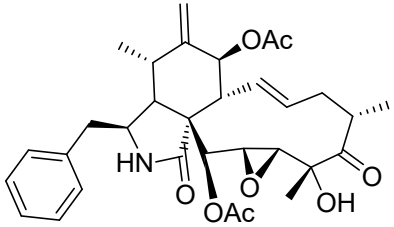
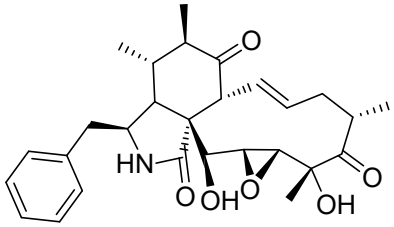
388	 $C_{30}H_{39}NO_7$ Cytochalasin P	*Xylaria longipes*, *Xylaria arbuscula* GZS74	Cytotoxicity	56,57
389	 $C_{32}H_{39}NO_7$ 7-*O*-acetylcytochalasin D	*Xylaria longipes*	Displayed no cytotoxicity	56
390	 $C_{30}H_{37}NO_6$ 6,7-dihydro-7-oxo-cytochalasin C	*Xylaria longipes*, *Xylaria arbuscula* GZS74	Cytotoxicity	56,57

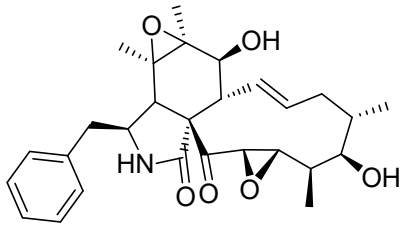
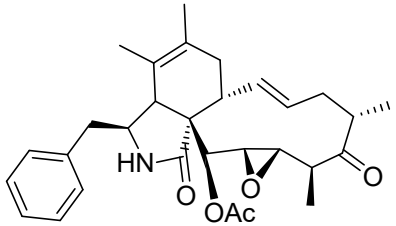
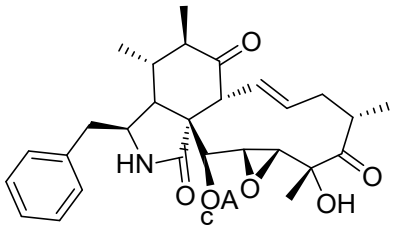
391	 $C_{30}H_{37}NO_7$ 6,12-epoxycytochalasin D	*Xylaria longipes*	Displayed no cytotoxicity	56
392	 $C_{30}H_{39}NO_7$ 6-epi-cytochalasin P	*Xylaria longipes*	Displayed no cytotoxicity	56
393	 $C_{32}H_{41}NO_8$ 7-*O*-acetylcytochalasin P	*Xylaria longipes*	Displayed no cytotoxicity	56

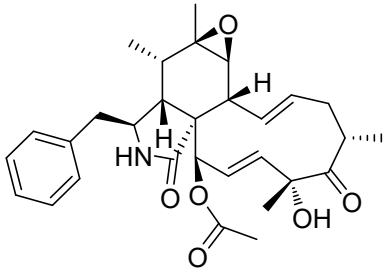
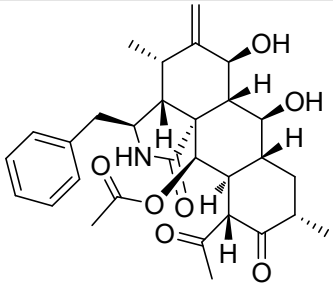
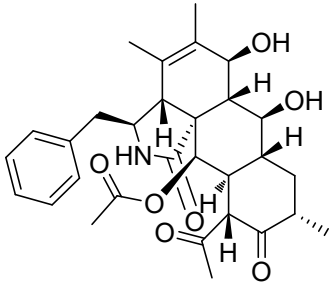
394	 $C_{30}H_{35}NO_5$ 7-oxo-cytochalasin C	*Xylaria longipes*	Displayed no cytotoxicity	56
395	 $C_{30}H_{37}NO_7$ 12-hydroxylcytochalasin Q	*Xylaria longipes*, *Xylaria arbuscula* GZS74	Cytotoxicity	56,57
396	 $C_{29}H_{33}NO_4$ Curtachalasin C	*Xylaria cf. curta*	Antifungal	107

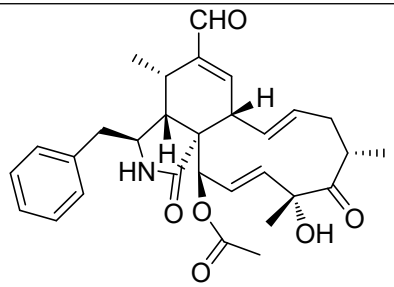
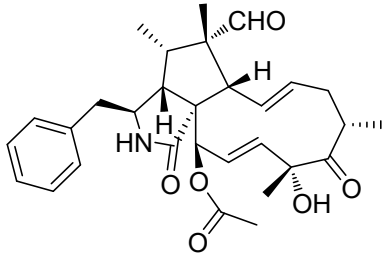
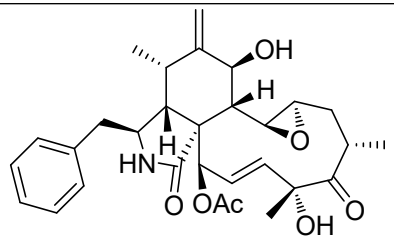
397	 $C_{29}H_{33}NO_4$ Curtachalasin D	*Xylaria cf. curta*	Not determined for any relevant biological activity	[107]
398	 $C_{28}H_{33}NO_5$ Curtachalasin E	*Xylaria cf. curta*	Antifungal	[107]
399	 $C_{30}H_{39}NO_8$ 19-epi-cytochalasin P1	*Xylaria cf. curta*	Cytotoxicity	[99]

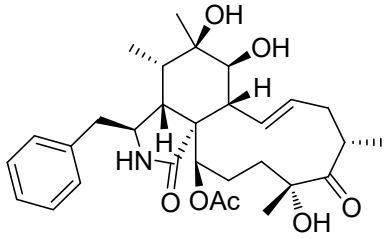
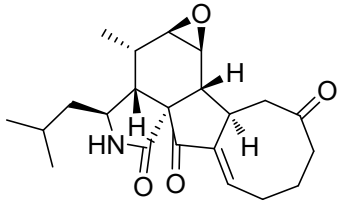
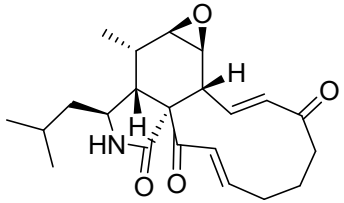
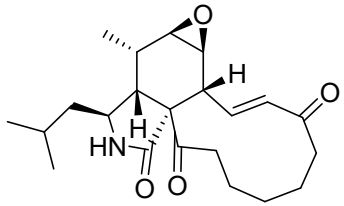
400	 $C_{30}H_{39}NO_8$ 6-epi-19,20-epoxycytochalasin P	*Xylaria cf. curta, Xylaria karyophthora* NRRL 66613	Cytotoxicity, actin disruption effect	[99,100]
401	 $C_{32}H_{41}NO_9$ 7-*O*-acetyl-6-epi-19,20-epoxycytochalasin P	*Xylaria cf. curta*	Cytotoxicity	[99]
402	 $C_{32}H_{41}NO_9$ 7-*O*-acetyl 19-epi-cytochalasin P1	*Xylaria cf. curta*	Displayed no cytotoxicity	[99]
403	 $C_{32}H_{41}NO_9$	*Xylaria cf. curta*	Displayed no cytotoxicity	[99]

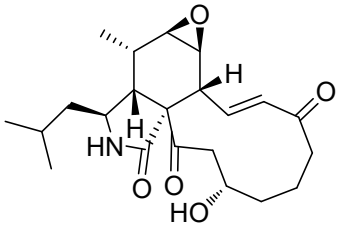
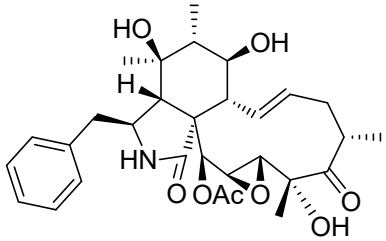
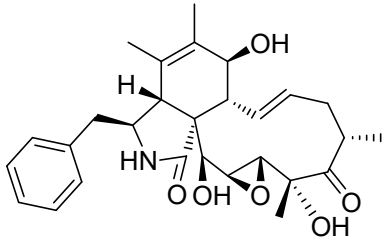
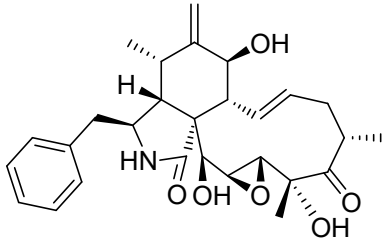
	6-*O*-acetyl-6-epi-19,20-epox ycytochalasin P			
404	 $C_{32}H_{39}NO_8$ 7-*O*-acetyl-19,20-epoxycytochalasin C	*Xylaria cf. curta*	Displayed no cytotoxicity	[99]
405	 $C_{32}H_{39}NO_8$ 7-*O*-acetyl 19,20-epoxycytochalasin C (exomethylene analogue)	*Xylaria cf. curta*	Cytotoxicity	[99]
406	 $C_{28}H_{35}NO_6$ deacetyl-5,6-dihydro-7-oxo-19,20-epoxycytochalasin C	*Xylaria cf. curta*	Displayed no cytotoxicity	[99]

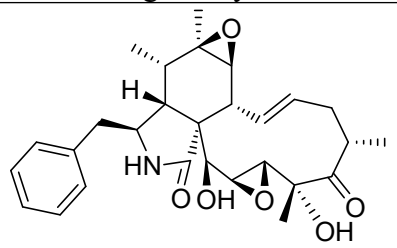
407	 $C_{28}H_{35}NO_6$ 18-deoxy-21-oxo-deacetyl-19,20-epoxycytochalasin N	*Xylaria cf. curta*	Displayed no cytotoxicity	[99]
408	 $C_{30}H_{37}NO_5$ 18-desoxy-19,20 epoxycytochalasin C	*Xylaria cf. curta*	Displayed no cytotoxicity	[99]
409	 $C_{30}H_{37}NO_7$ 5,6-dihydro-7-oxo-19,20-epoxycytochalasin C	*Xylaria cf. curta*, *Xylaria karyophthora* NRRL 66613	Cytotoxicity, antibiofilm, actin disruption effect	[99,100]

410	 $C_{30}H_{37}NO_6$ Cytochalasin Q	*Xylaria* sp, *Xylaria arbuscula* GZS74	Cytotoxicity	[57,84]
411	 $C_{30}H_{37}NO_7$ Arbuschalasin A	*Xylaria arbuscula* GZS74	Cytotoxicity	[57]
412	 $C_{30}H_{37}NO_7$ Arbuschalasin B	*Xylaria arbuscula* GZS74	Cytotoxicity	[57]

413	 $C_{30}H_{35}NO_6$ Arbuschalasin C	*Xylaria arbuscula* GZS74	Cytotoxicity	[57]
414	 $C_{30}H_{37}NO_6$ Arbuschalasin D	*Xylaria arbuscula* GZS74	Cytotoxicity	[57]
415	 $C_{30}H_{37}NO_7$ Cytochalasin D 13,14-epoxid	*Xylaria arbuscula* GZS74	Cytotoxicity	[57]

416	 $C_{30}H_{41}NO_7$ Cytochalasin O	*Xylaria arbuscula* GZS74	Cytotoxicity	[57]
417	 $C_{22}H_{29}NO_4$ Lagambasine A	*Xylaria* sp. WH2D4	Displayed no antifungal	[108]
418	 $C_{22}H_{29}NO_4$ Lagambasine B	*Xylaria* sp. WH2D4	Displayed no antifungal	[108]
419	 $C_{22}H_{31}NO_4$ Lagambasine C	*Xylaria* sp. WH2D4	Displayed no antifungal	[108]

420	 $C_{22}H_{31}NO_5$ Lagambasine D	*Xylaria* sp. WH2D4	Displayed no antifungal	108
421	 $C_{30}H_{39}NO_8$ karyochalasin	*Xylaria karyophthora* NRRL 66613	Cytotoxicity, actin disruption effect	100
422	 $C_{28}H_{35}NO_6$ Deacetyl 19,20-epoxycytochalasin C	*Xylaria karyophthora* NRRL 66613	Cytotoxicity, antibiofilm, actin disruption effect	100
423		*Xylaria karyophthora* NRRL 66613	Actin disruption effect	100

	$C_{28}H_{35}NO_6$ Engleromycin			
424	 $C_{28}H_{35}NO_6$ 19,20-epoxycytochalasin Q	*Xylaria karyophthora* NRRL 66613	Actin disruption effect	[100]

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