Supplemental Information for

Luminescent homochiral silver(I) lamellar coordination networks built from helical chains

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Tables

Table S1. Crystal data and structure refinement for AgL_2X (X = NO_3^-, **1** and X = ClO_4^-, **2)**

	1	**2**
Formula	C72 H56 Ag N5 O7	C72 H56 Ag Cl N4 O8
Formula weight	1211.09	1248.53
Crystal size (mm^3)	0.80 × 0.60 × 0.20	0.70 × 0.50 × 0.20
Crystal color	colorless	colorless
Crystal system	Monoclinic	Monoclinic,
Space group	C2	C2
Unit cell dimensions	a = 33.739(16) Å	a = 34.6314(9) Å
	b = 9.704(3) Å	b = 10.2182(2) Å
	c = 8.672(2) Å	c = 8.3801(2) Å
	β = 95.92(4)	β = 91.780(2)
Volume ($Å^3$)	2824.1(17)	2964.04(12)
Z	2	2
Calculated density ($g·cm^{-3}$)	1.424	1.399
F(000)	1252	1288
Temperature (K)	173(2)	173(2)
Wavelength (Å)	0.71073	0.71073
Absorption coefficient (mm^{-1})	0.421	0.448
θ for data collection (^{o})	3.52 to 25.09	3.99 to 23.29
Limiting indices	-40≤h≤37, -11≤k≤11, -10≤l≤10	-38≤h≤31, -10≤k≤11, -9≤l≤9
Reflections collected	11493	7711
Unique reflections (R(int))	4853 [R(int) = 0.0314]	4024 [R(int) = 0.0339]
Refinement method	Empirical	Empirical
Absorption correction	Full-matrix least-squares on F^2	Full-matrix least-squares on F^2
Data / restraints / parameters	4853 / 1 / 385	4024 / 4 / 389
Goodness-of-fit on F^2	1.043	1.031
Final R indices [$I > 2\sigma(I)$]	R1 = 0.0262, wR2 = 0.0596	R1 = 0.0466, wR2 = 0.1068
R indices (all data)	R1 = 0.0287, wR2 = 0.0608	R1 = 0.0543, wR2 = 0.1117
Flack parameter	-0.019(14)	-0.07(4)
Largest diff. peak and hole ($e·Å^3$)	0.310 and -0.334	0.840 and -0.563

$R1 = \sum(|F_o| - |F_c|) / \sum|F_o|$, $wR2 = [\sum w(F_o^2 - F_c^2)^2 / \sum w(F_o^2)^2]^{0.5}$.

Table S2. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters ($Å^2$x 10^3) for **1**.

Atom	x	y	z	U(eq)	Atom	x	y	z	U(eq)
Ag(1)	5000	8904(1)	5000	28(1)	C(15)	8676(1)	7652(3)	2742(3)	25(1)
O(1)	8447(1)	5405(2)	5961(2)	27(1)	C(16)	8479(1)	6681(2)	3642(2)	22(1)
O(2)	7723(1)	7689(2)	4271(2)	32(1)	C(17)	8645(1)	6358(2)	5123(3)	22(1)
O(3)	9861(1)	8980(3)	8813(2)	41(1)	C(18)	8250(1)	6001(3)	7187(3)	37(1)
O(4)	10000	10888(3)	10000	52(1)	C(19)	7689(1)	8909(5)	3343(3)	44(1)
N(1)	9761(1)	4525(2)	12599(2)	25(1)	C(20)	8096(1)	6003(2)	3029(2)	23(1)
N(2)	5560(1)	7450(2)	4605(2)	28(1)	C(21)	8105(1)	4756(3)	2136(2)	23(1)
N(3)	10000	9616(3)	10000	27(1)	C(22)	8458(1)	4242(3)	1599(3)	28(1)
C(1)	9649(1)	3518(2)	11590(3)	27(1)	C(23)	8456(1)	3028(3)	802(3)	35(1)
C(2)	9468(1)	3754(3)	10113(2)	26(1)	C(24)	8103(1)	2262(3)	498(3)	38(1)
C(3)	9398(1)	5103(3)	9601(3)	24(1)	C(25)	7754(1)	2748(3)	955(3)	34(1)
C(4)	9526(1)	6145(3)	10634(3)	28(1)	C(26)	7744(1)	4015(4)	1775(2)	27(1)
C(5)	9703(1)	5815(3)	12091(3)	26(1)	C(27)	7386(1)	4539(3)	2247(3)	29(1)
C(6)	9192(1)	5367(3)	8053(3)	26(1)	C(28)	7373(1)	5757(3)	3043(3)	26(1)
C(7)	9212(1)	6556(3)	7303(3)	26(1)	C(29)	7737(1)	6482(2)	3415(2)	24(1)
C(8)	9014(1)	6928(3)	5765(3)	24(1)	C(30)	7000(1)	6321(3)	3523(3)	28(1)
C(9)	9191(1)	7896(3)	4911(3)	27(1)	C(31)	6654(1)	5658(3)	3501(3)	31(1)
C(10)	9032(1)	8294(3)	3400(3)	26(1)	C(32)	5916(1)	7891(3)	5272(3)	31(1)
C(11)	9218(1)	9297(2)	2543(3)	30(1)	C(33)	6273(1)	7347(3)	4960(3)	31(1)
C(12)	9064(1)	9643(3)	1076(3)	36(1)	C(34)	6280(1)	6267(3)	3905(3)	27(1)
C(13)	8719(1)	8991(5)	412(2)	39(1)	C(35)	5916(1)	5810(3)	3234(3)	27(1)
C(14)	8529(1)	8019(3)	1209(3)	31(1)	C(36)	5567(1)	6415(3)	3595(3)	28(1)

Table S3. Atomic coordinates (x 10^4) and equivalent isotropic displacement parameters ($Å^2$x 10^3) for **2**.

Atom	x	y	z	U(eq)	Atom	x	y	z	U(eq)
Ag(1)	0	8633(1)	-10000	53(1)	C(15)	3062(2)	4402(6)	-12711(6)	44(2)
Cl(1)	0	14758(3)	-15000	81(1)	C(16)	3034(2)	5556(6)	-11768(6)	42(2)
O(1)	2646(1)	7124(4)	-10464(5)	50(1)	C(17)	2675(2)	6009(6)	-11406(6)	44(2)
O(2)	3370(1)	4937(5)	-8802(5)	53(1)	C(18)	2590(2)	8299(6)	-11368(8)	64(2)
O(3)	272(2)	15586(8)	-15745(10)	116(3)	C(19)	3168(2)	5443(7)	-7482(8)	58(2)
O(4)	-195(2)	13961(5)	-16149(8)	129(3)	C(20)	3388(2)	6234(6)	-11137(7)	42(2)
N(1)	553(1)	7310(5)	-10496(6)	44(1)	C(21)	3568(2)	7227(7)	-12042(7)	47(2)
N(2)	4761(1)	4489(6)	-2327(6)	46(1)	C(22)	3426(2)	7618(8)	-13578(7)	56(2)
C(1)	891(2)	7736(7)	-9898(8)	51(2)	C(23)	3595(2)	8617(14)	-14372(8)	74(2)
C(2)	1238(2)	7130(7)	-10174(7)	48(2)	C(24)	3912(2)	9284(9)	-13726(10)	77(2)
C(4)	887(2)	5632(8)	-11827(11)	65(2)	C(25)	4063(2)	8895(11)	-12281(8)	74(3)
C(5)	556(2)	6292(7)	-11433(8)	53(2)	C(26)	3898(2)	7891(7)	-11390(8)	53(2)
C(3)	1246(2)	6049(7)	-11138(9)	44(2)	C(27)	4054(2)	7435(9)	-9900(8)	65(2)
C(6)	1611(2)	5385(7)	-11560(7)	54(2)	C(29)	3550(2)	5887(7)	-9674(7)	48(2)
C(7)	1959(2)	5903(7)	-11415(7)	48(2)	C(28)	3896(2)	6466(9)	-8997(9)	57(2)
C(8)	2329(2)	5358(6)	-11878(7)	42(2)	C(30)	4073(2)	5918(15)	-7594(11)	119(5)
C(9)	2359(2)	4217(6)	-12733(7)	47(2)	C(31)	4290(4)	6190(20)	-6474(13)	330(20)
C(10)	2718(2)	3697(10)	-13187(5)	46(1)	C(32)	4413(3)	5401(18)	-5209(11)	146(7)
C(11)	2750(2)	2542(7)	-14070(7)	53(2)	C(33)	4538(4)	6190(14)	-4033(15)	128(6)
C(12)	3098(2)	2081(7)	-14495(8)	61(2)	C(34)	4713(2)	5732(8)	-2663(9)	69(2)
C(13)	3438(2)	2780(8)	-14081(8)	64(2)	C(35)	4459(2)	4060(13)	-4863(8)	93(4)
C(14)	3425(2)	3903(8)	-13219(6)	52(2)	C(36)	4636(2)	3647(12)	-3442(6)	58(2)

Table S4. Selected bond lengths [Å] for **1**.

Bond	distances	Bond	distances	Bond	distances
Ag(1)-N(1)#1	2.237(2)	C(3)-C(6)	1.470(3)	C(20)-C(21)	1.438(3)
Ag(1)-N(1)#2	2.237(2)	C(4)-C(5)	1.379(3)	C(21)-C(22)	1.415(3)
Ag(1)-N(2)#3	2.410(2)	C(6)-C(7)	1.329(4)	C(21)-C(26)	1.420(4)
Ag(1)-N(2)	2.410(2)	C(7)-C(8)	1.473(3)	C(22)-C(23)	1.366(4)
O(1)-C(17)	1.387(3)	C(8)-C(9)	1.370(4)	C(23)-C(24)	1.406(4)
O(1)-C(18)	1.434(3)	C(8)-C(17)	1.424(3)	C(24)-C(25)	1.366(4)
O(2)-C(29)	1.389(3)	C(9)-C(10)	1.417(3)	C(25)-C(26)	1.421(4)
O(2)-C(19)	1.429(4)	C(10)-C(11)	1.411(3)	C(26)-C(27)	1.409(4)
O(3)-N(3)	1.250(2)	C(10)-C(15)	1.420(4)	C(27)-C(28)	1.372(4)
O(4)-N(3)	1.235(4)	C(11)-C(12)	1.366(4)	C(28)-C(29)	1.423(4)
N(1)-C(5)	1.334(3)	C(12)-C(13)	1.396(4)	C(28)-C(30)	1.469(3)
N(1)-C(1)	1.339(3)	C(13)-C(14)	1.368(4)	C(30)-C(31)	1.332(4)
N(2)-C(36)	1.334(3)	C(14)-C(15)	1.416(3)	C(31)-C(34)	1.468(4)

N(2)-C(32)	1.348(3)	C(15)-C(16)	1.431(3)	C(32)-C(33)	1.368(4)
N(3)-O(3)#5	1.250(2)	C(16)-C(17)	1.383(3)	C(33)-C(34)	1.393(4)
C(1)-C(2)	1.379(3)	C(16)-C(20)	1.498(3)	C(34)-C(35)	1.379(4)
C(2)-C(3)	1.395(4)	C(20)-C(29)	1.372(3)	C(35)-C(36)	1.380(4)
C(3)-C(4)	1.389(3)				

Table S5. Selected angles [º] for **1**

Atom1-atom2-atom3	angles	Atom1-atom2-atom3	angles	Atom1-atom2-atom3	angles
N(1)#1-Ag(1)-N(1)#2	148.77(11)	C(6)-C(7)-C(8)	127.9(2)	C(22)-C(21)-C(20)	122.6(2)
N(1)#1-Ag(1)-N(2)#3	103.79(7)	C(9)-C(8)-C(17)	117.8(2)	C(26)-C(21)-C(20)	118.7(2)
N(1)#2-Ag(1)-N(2)#3	94.40(8)	C(9)-C(8)-C(7)	118.4(2)	C(23)-C(22)-C(21)	120.7(2)
N(1)#1-Ag(1)-N(2)	94.40(8)	C(17)-C(8)-C(7)	123.7(2)	C(22)-C(23)-C(24)	120.6(2)
N(1)#2-Ag(1)-N(2)	103.79(7)	C(8)-C(9)-C(10)	122.9(2)	C(25)-C(24)-C(23)	120.2(2)
N(2)#3-Ag(1)-N(2)	108.32(10)	C(11)-C(10)-C(9)	121.9(2)	C(24)-C(25)-C(26)	120.6(2)
C(17)-O(1)-C(18)	113.8(2)	C(11)-C(10)-C(15)	119.7(2)	C(27)-C(26)-C(21)	119.5(3)
C(29)-O(2)-C(19)	113.75(18)	C(9)-C(10)-C(15)	118.4(2)	C(27)-C(26)-C(25)	121.5(2)
C(5)-N(1)-C(1)	116.58(19)	C(12)-C(11)-C(10)	120.9(2)	C(21)-C(26)-C(25)	119.0(2)
C(5)-N(1)-Ag(1)#4	125.86(16)	C(11)-C(12)-C(13)	119.6(3)	C(28)-C(27)-C(26)	122.2(3)
C(1)-N(1)-Ag(1)#4	117.50(15)	C(14)-C(13)-C(12)	121.3(2)	C(27)-C(28)-C(29)	117.8(2)
C(36)-N(2)-C(32)	116.5(2)	C(13)-C(14)-C(15)	120.7(2)	C(27)-C(28)-C(30)	122.5(2)
C(36)-N(2)-Ag(1)	126.93(16)	C(14)-C(15)-C(10)	117.9(2)	C(29)-C(28)-C(30)	119.6(2)
C(32)-N(2)-Ag(1)	115.42(17)	C(14)-C(15)-C(16)	122.7(2)	C(20)-C(29)-O(2)	119.6(2)
O(4)-N(3)-O(3)	119.61(16)	C(10)-C(15)-C(16)	119.4(2)	C(20)-C(29)-C(28)	122.7(2)
O(4)-N(3)-O(3)#5	119.61(16)	C(17)-C(16)-C(15)	119.4(2)	O(2)-C(29)-C(28)	117.6(2)
O(3)-N(3)-O(3)#5	120.8(3)	C(17)-C(16)-C(20)	118.8(2)	C(31)-C(30)-C(28)	126.2(2)
N(1)-C(1)-C(2)	123.5(2)	C(15)-C(16)-C(20)	121.88(19)	C(30)-C(31)-C(34)	125.2(2)
C(1)-C(2)-C(3)	119.7(2)	C(16)-C(17)-O(1)	117.9(2)	N(2)-C(32)-C(33)	123.8(2)
C(4)-C(3)-C(2)	116.5(2)	C(16)-C(17)-C(8)	121.9(2)	C(32)-C(33)-C(34)	119.8(2)
C(4)-C(3)-C(6)	123.2(2)	O(1)-C(17)-C(8)	120.1(2)	C(35)-C(34)-C(33)	116.3(2)
C(2)-C(3)-C(6)	120.2(2)	C(29)-C(20)-C(21)	119.0(2)	C(35)-C(34)-C(31)	121.4(2)
C(5)-C(4)-C(3)	119.8(2)	C(29)-C(20)-C(16)	121.1(2)	C(33)-C(34)-C(31)	122.3(2)
N(1)-C(5)-C(4)	123.7(2)	C(21)-C(20)-C(16)	119.7(2)	C(34)-C(35)-C(36)	120.9(2)
C(7)-C(6)-C(3)	123.7(2)	C(22)-C(21)-C(26)	118.7(2)	N(2)-C(36)-C(35)	122.8(2)

Symmetry transformations used to generate equivalent atoms: #1: -x+3/2, y+1/2, -z+2; #2: x-1/2, y+1/2, z-1; #3: -x+1, y, -z+1; #4: x+1/2, y-1/2, z+1; #5: -x+2, y, -z+2

Table S6. Selected bond lengths [Å] for **2**.

Bond	distances	Bond	distances	Bond	distances
Ag(1)-N(2)#1	2.270(5)	C(2)-C(3)	1.368(10)	C(33)-C(34)	1.363(13)
Ag(1)-N(2)#2	2.270(5)	C(4)-C(5)	1.379(10)	C(35)-C(36)	1.388(9)
Ag(1)-N(1)#3	2.390(5)	C(4)-C(3)	1.421(10)	C(8)-C(17)	1.417(9)
Ag(1)-N(1)	2.390(5)	C(3)-C(6)	1.488(10)	C(9)-C(10)	1.415(9)
Cl(1)-O(4)#4	1.417(5)	C(6)-C(7)	1.317(9)	C(10)-C(11)	1.400(11)
Cl(1)-O(4)	1.417(5)	C(7)-C(8)	1.462(9)	C(10)-C(15)	1.438(9)
Cl(1)-O(3)	1.426(8)	C(8)-C(9)	1.374(8)	C(11)-C(12)	1.352(10)
Cl(1)-O(3)#4	1.426(8)	C(23)-C(24)	1.389(12)	C(12)-C(13)	1.413(11)
O(1)-C(17)	1.391(7)	C(24)-C(25)	1.362(10)	C(13)-C(14)	1.357(10)
O(1)-C(18)	1.430(8)	C(25)-C(26)	1.401(11)	C(14)-C(15)	1.435(9)
O(2)-C(29)	1.376(8)	C(26)-C(27)	1.424(9)	C(15)-C(16)	1.424(8)
O(2)-C(19)	1.424(8)	C(27)-C(28)	1.371(11)	C(16)-C(17)	1.369(8)
N(1)-C(5)	1.304(8)	C(29)-C(28)	1.438(11)	C(16)-C(20)	1.490(8)
N(1)-C(1)	1.333(8)	C(28)-C(30)	1.425(12)	C(20)-C(29)	1.379(8)
N(2)-C(34)	1.311(9)	C(30)-C(31)	1.217(16)	C(20)-C(21)	1.421(9)
N(2)-C(36)	1.333(10)	C(31)-C(32)	1.390(14)	C(21)-C(22)	1.421(8)
N(2)-Ag(1)#5	2.270(5)	C(32)-C(33)	1.34(2)	C(21)-C(26)	1.425(9)
C(1)-C(2)	1.376(9)	C(32)-C(35)	1.409(18)	C(22)-C(23)	1.361(13)

Table S7. Selected angles [º] for **2**

Atom1-atom2-atom3	angles	Atom1-atom2-atom3	angles	Atom1-atom2-atom3	angles
N(2)#1-Ag(1)-N(2)#2	134.6(3)	C(6)-C(7)-C(8)	129.0(7)	C(4)-C(3)-C(6)	120.4(7)
N(2)#1-Ag(1)-N(1)#3	109.96(17)	C(9)-C(8)-C(17)	117.9(6)	C(7)-C(6)-C(3)	125.2(7)
N(2)#2-Ag(1)-N(1)#3	95.43(18)	C(9)-C(8)-C(7)	122.8(6)	C(20)-C(21)-C(26)	119.7(5)
N(2)#1-Ag(1)-N(1)	95.43(18)	C(17)-C(8)-C(7)	119.3(6)	C(23)-C(22)-C(21)	120.8(7)
N(2)#2-Ag(1)-N(1)	109.96(17)	C(8)-C(9)-C(10)	122.6(6)	C(22)-C(23)-C(24)	121.6(6)
N(1)#3-Ag(1)-N(1)	111.2(3)	C(11)-C(10)-C(9)	122.9(6)	C(25)-C(24)-C(23)	118.7(8)
O(4)#4-Cl(1)-O(4)	109.8(5)	C(11)-C(10)-C(15)	119.4(6)	C(24)-C(25)-C(26)	122.4(7)
O(4)#4-Cl(1)-O(3)	109.3(4)	C(9)-C(10)-C(15)	117.7(7)	C(25)-C(26)-C(27)	123.9(7)
O(4)-Cl(1)-O(3)	110.6(5)	C(12)-C(11)-C(10)	121.2(7)	C(25)-C(26)-C(21)	118.7(6)
O(4)#4-Cl(1)-O(3)#4	110.6(5)	C(11)-C(12)-C(13)	120.2(6)	C(27)-C(26)-C(21)	117.3(7)
O(4)-Cl(1)-O(3)#4	109.3(4)	C(14)-C(13)-C(12)	121.1(7)	C(28)-C(27)-C(26)	124.9(7)
O(3)-Cl(1)-O(3)#4	107.2(7)	C(13)-C(14)-C(15)	120.1(7)	O(2)-C(29)-C(20)	118.4(6)
C(17)-O(1)-C(18)	113.4(4)	C(16)-C(15)-C(14)	122.2(6)	O(2)-C(29)-C(28)	117.8(6)
C(29)-O(2)-C(19)	113.4(5)	C(16)-C(15)-C(10)	120.0(6)	C(20)-C(29)-C(28)	123.8(7)
C(5)-N(1)-C(1)	117.6(6)	C(14)-C(15)-C(10)	117.8(6)	C(27)-C(28)-C(30)	124.7(9)
C(5)-N(1)-Ag(1)	125.2(4)	C(17)-C(16)-C(15)	118.7(6)	C(27)-C(28)-C(29)	115.0(6)
C(1)-N(1)-Ag(1)	116.7(4)	C(17)-C(16)-C(20)	120.4(5)	C(30)-C(28)-C(29)	119.8(9)
C(34)-N(2)-C(36)	116.0(7)	C(15)-C(16)-C(20)	120.9(5)	C(31)-C(30)-C(28)	141.8(18)
C(34)-N(2)-Ag(1)#5	126.8(5)	C(16)-C(17)-O(1)	119.0(5)	C(30)-C(31)-C(32)	128(2)
C(36)-N(2)-Ag(1)#5	117.1(5)	C(16)-C(17)-C(8)	123.0(6)	C(33)-C(32)-C(31)	107.2(16)
N(1)-C(1)-C(2)	123.4(6)	O(1)-C(17)-C(8)	117.9(5)	C(33)-C(32)-C(35)	113.8(7)
C(3)-C(2)-C(1)	119.8(6)	C(29)-C(20)-C(21)	119.0(6)	C(31)-C(32)-C(35)	139.0(17)
C(5)-C(4)-C(3)	118.7(7)	C(29)-C(20)-C(16)	120.2(6)	C(32)-C(33)-C(34)	122.7(11)
N(1)-C(5)-C(4)	123.8(6)	C(21)-C(20)-C(16)	120.8(5)	N(2)-C(34)-C(33)	124.3(10)
C(2)-C(3)-C(4)	116.6(7)	C(22)-C(21)-C(20)	122.6(6)	C(36)-C(35)-C(32)	121.1(10)
C(2)-C(3)-C(6)	122.9(6)	C(22)-C(21)-C(26)	117.6(7)	N(2)-C(36)-C(35)	122.0(10)

Symmetry transformations used to generate equivalent atoms: #1: -x+1/2, y+1/2, -z-1; #2: x-1/2, y+1/2, z-1; #3: -x, y, -z-2; #4: -x, y, -z-3; #5: x+1/2, y-1/2, z+1

Table S8. Anisotropic displacement parameters ($Å^2$ x 10^3) for **1**.

	U11	U22	U33	U23	U13	U12
Ag(1)	22(1)	42(1)	19(1)	0	-3(1)	0
O(1)	30(1)	27(1)	23(1)	2(1)	-3(1)	-5(1)
O(2)	31(1)	35(1)	28(1)	-10(1)	0(1)	5(1)
O(3)	49(1)	34(1)	38(1)	-6(1)	-9(1)	-5(1)
O(4)	75(2)	18(1)	60(2)	0	-8(2)	0
N(1)	24(1)	31(1)	20(1)	2(1)	2(1)	6(1)
N(2)	22(1)	32(1)	29(1)	-1(1)	2(1)	1(1)

N(3)	22(2)	22(2)	37(2)	0	0(1)	0
C(1)	33(1)	24(1)	24(1)	1(1)	0(1)	3(1)
C(2)	30(1)	24(1)	23(1)	-2(1)	1(1)	1(1)
C(3)	19(1)	31(1)	21(1)	0(1)	0(1)	2(1)
C(4)	33(2)	24(1)	26(1)	3(1)	-3(1)	2(1)
C(5)	27(1)	28(1)	22(1)	-4(1)	-2(1)	0(1)
C(6)	24(1)	29(1)	24(1)	-4(1)	-5(1)	0(1)
C(7)	24(1)	31(2)	22(1)	-2(1)	-6(1)	-3(1)
C(8)	25(1)	24(1)	21(1)	-2(1)	-3(1)	1(1)
C(9)	24(1)	28(1)	26(1)	-4(1)	-4(1)	-2(1)
C(10)	23(1)	28(1)	27(1)	-1(1)	3(1)	4(1)
C(11)	28(1)	29(2)	33(1)	1(1)	1(1)	-1(1)
C(12)	38(2)	34(2)	36(1)	11(1)	9(1)	1(1)
C(13)	38(1)	52(2)	26(1)	15(2)	0(1)	10(2)
C(14)	25(1)	45(2)	23(1)	3(1)	-2(1)	3(1)
C(15)	23(1)	28(1)	24(1)	-1(1)	3(1)	7(1)
C(16)	18(1)	26(1)	21(1)	-4(1)	-1(1)	4(1)
C(17)	25(1)	19(1)	23(1)	-1(1)	1(1)	2(1)
C(18)	29(2)	51(2)	31(1)	3(1)	4(1)	-4(1)
C(19)	52(2)	34(1)	45(1)	-9(2)	1(1)	12(2)
C(20)	22(1)	29(1)	17(1)	0(1)	-1(1)	3(1)
C(21)	22(1)	29(1)	18(1)	2(1)	-1(1)	4(1)
C(22)	22(1)	38(2)	24(1)	-1(1)	-2(1)	3(1)
C(23)	26(2)	45(2)	34(1)	-9(1)	3(1)	8(1)
C(24)	38(2)	38(2)	36(1)	-15(1)	-1(1)	8(1)
C(25)	27(1)	36(2)	37(1)	-11(1)	-2(1)	-1(1)
C(26)	26(1)	32(1)	23(1)	-1(1)	-1(1)	1(2)
C(27)	20(1)	33(1)	31(1)	-2(1)	-1(1)	-1(1)
C(28)	25(1)	32(1)	22(1)	2(1)	2(1)	5(1)
C(29)	26(1)	26(1)	20(1)	-4(1)	-2(1)	4(1)
C(30)	21(1)	33(1)	30(1)	-3(1)	3(1)	4(1)
C(31)	29(2)	36(2)	28(1)	-8(1)	0(1)	4(1)
C(32)	26(1)	34(1)	32(1)	-8(1)	2(1)	-2(1)
C(33)	20(1)	41(2)	31(1)	-5(1)	1(1)	-3(1)
C(34)	25(1)	35(1)	20(1)	-1(1)	3(1)	-1(1)
C(35)	27(2)	31(2)	24(1)	-4(1)	3(1)	-3(1)
C(36)	23(1)	32(1)	26(1)	-3(1)	-1(1)	-4(1)

Table S9. Anisotropic displacement parameters ($Å^2$ x 10^3) for **2**.

	U11	U22	U33	U23	U13	U12

Ag(1)	36(1)	86(1)	37(1)	0	-14(1)	0
Cl(1)	95(2)	44(2)	100(2)	0	-46(2)	0
O(1)	48(3)	60(3)	41(2)	-13(2)	-10(2)	19(2)
O(2)	60(3)	63(3)	36(2)	1(2)	-8(2)	17(2)
O(3)	88(5)	109(6)	149(7)	20(5)	-13(5)	-3(4)
O(4)	206(7)	56(4)	117(4)	4(3)	-105(5)	-11(4)
N(1)	36(3)	55(3)	40(3)	-3(3)	-4(2)	-2(2)
N(2)	41(3)	58(4)	38(3)	3(3)	-8(2)	11(3)
C(1)	37(4)	66(4)	50(4)	-15(3)	-1(3)	-6(3)
C(2)	36(4)	63(5)	44(4)	-3(3)	-3(3)	-9(3)
C(4)	51(5)	63(5)	81(6)	-27(4)	2(4)	-10(4)
C(5)	41(4)	65(5)	52(4)	-15(3)	-9(3)	-4(3)
C(3)	42(4)	49(4)	40(4)	-8(3)	-7(3)	2(3)
C(6)	52(4)	65(5)	45(4)	-13(3)	-4(3)	4(4)
C(7)	45(4)	57(4)	43(3)	-4(3)	-2(3)	15(3)
C(8)	44(4)	51(4)	31(3)	-1(3)	-6(3)	7(3)
C(9)	47(4)	59(4)	35(3)	2(3)	-2(3)	4(3)
C(10)	51(3)	58(4)	28(2)	-3(4)	-7(2)	7(5)
C(11)	62(4)	55(4)	41(4)	-7(3)	-3(3)	13(4)
C(12)	79(6)	56(5)	48(4)	-22(3)	-7(4)	17(4)
C(13)	67(5)	84(6)	41(4)	-9(4)	4(4)	35(4)
C(14)	51(4)	75(6)	29(3)	-10(3)	-1(2)	17(4)
C(15)	50(4)	53(4)	28(3)	-2(3)	-7(3)	19(3)
C(16)	44(4)	52(4)	28(3)	2(3)	-4(3)	17(3)
C(17)	47(4)	55(4)	29(3)	-5(3)	-5(3)	15(3)
C(18)	85(5)	50(6)	54(4)	-14(3)	-13(3)	19(4)
C(19)	54(4)	70(5)	49(4)	-8(4)	-3(3)	5(4)
C(20)	38(3)	55(4)	32(3)	-9(3)	-9(3)	21(3)
C(21)	40(4)	65(4)	35(3)	-11(3)	-12(3)	14(3)
C(22)	48(4)	80(5)	39(4)	10(4)	-11(3)	7(4)
C(23)	62(4)	102(6)	59(4)	26(6)	-12(3)	15(7)
C(24)	62(5)	96(6)	74(5)	8(4)	1(4)	-5(4)
C(25)	49(4)	112(9)	60(4)	-12(5)	-9(3)	-10(5)
C(26)	42(4)	69(5)	48(4)	-6(3)	-2(3)	12(3)
C(27)	36(4)	122(7)	38(4)	-17(4)	-11(3)	12(4)
C(29)	43(4)	68(5)	34(3)	-7(3)	-3(3)	22(4)
C(28)	46(5)	91(6)	35(4)	0(4)	-15(4)	20(4)
C(30)	36(5)	255(15)	65(6)	-78(9)	-7(4)	28(7)
C(31)	200(17)	700(50)	84(9)	126(18)	75(10)	320(30)
C(32)	95(8)	299(19)	45(5)	75(9)	32(5)	141(11)
C(33)	146(12)	154(12)	89(8)	85(9)	56(8)	101(10)
C(34)	64(5)	73(6)	70(5)	20(4)	22(4)	15(4)
C(35)	39(4)	207(14)	32(3)	-16(5)	-8(3)	33(6)
C(36)	45(3)	84(4)	44(3)	1(6)	-4(3)	2(6)

Figures:

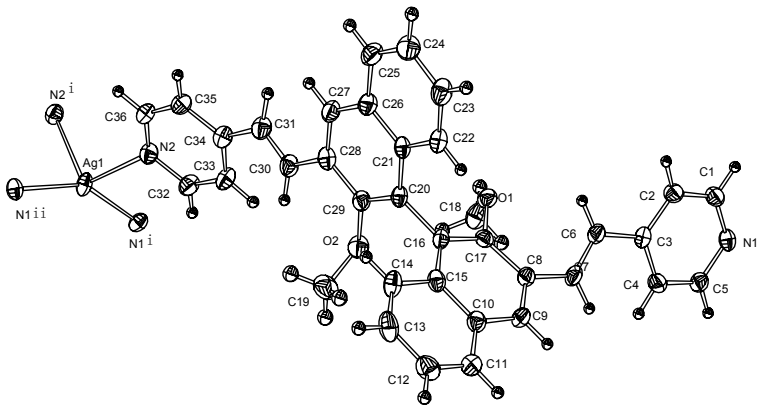

Fig. S1. ORTEP representation of the symmetry expanded local structure for **1** (30% probability ellipsoids).

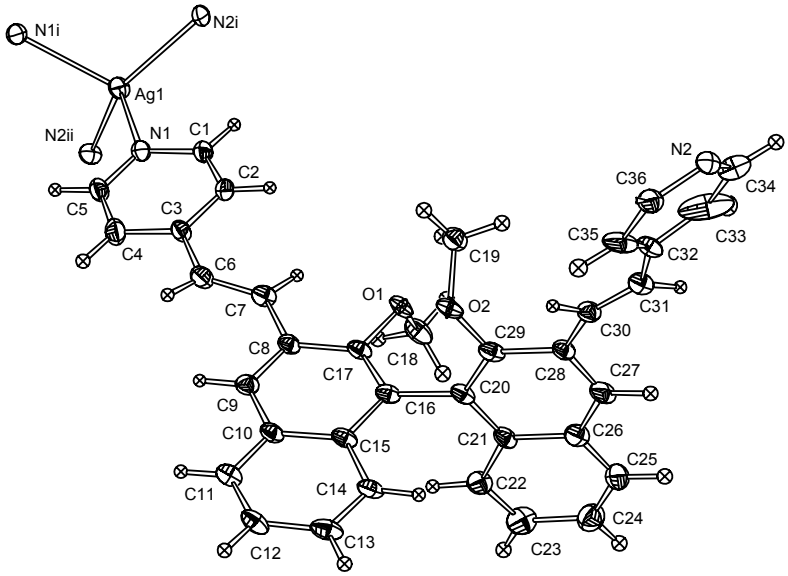

Fig. S2. ORTEP representation of the symmetry expanded local structure for **2** (25% probability

ellipsoids).

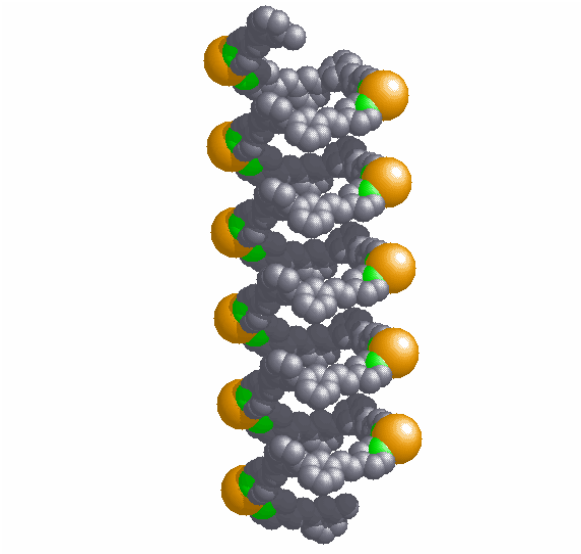

Fig. S3. Space filling representation a right-handed helix in **1**.

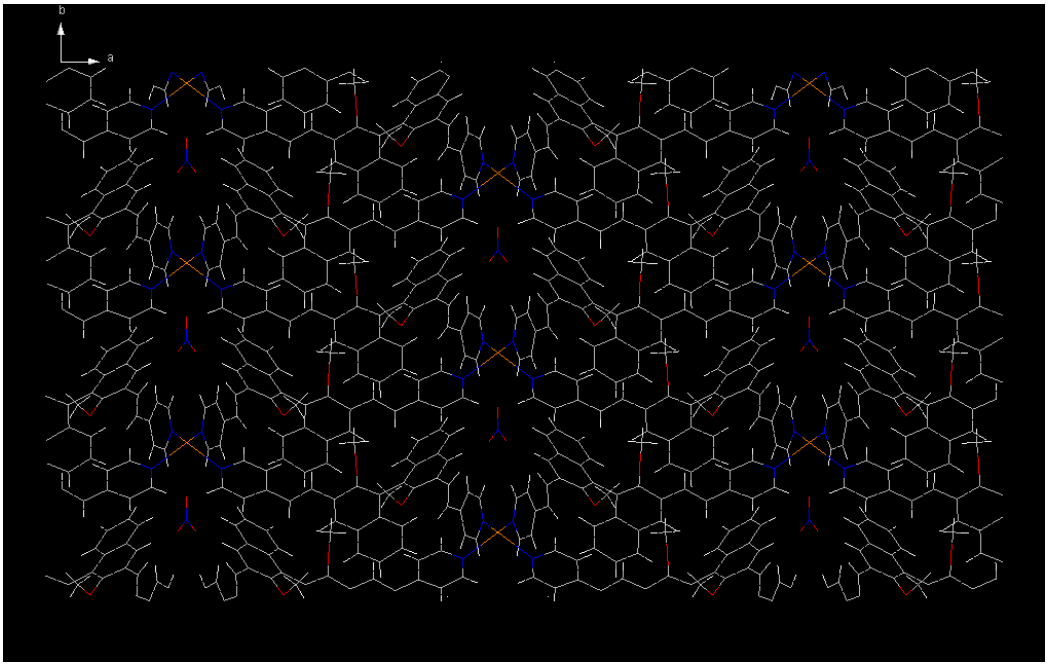

Fig. S4.Packing diagram of **1** viewed down the c-axis.

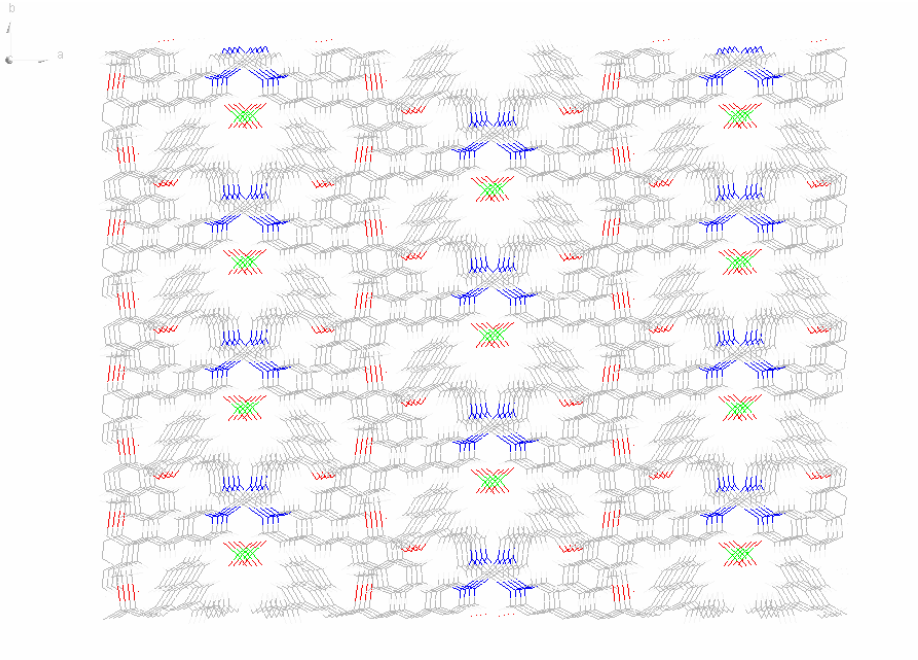

Fig. S5.Packing diagram of **2** viewed down the c-axis.

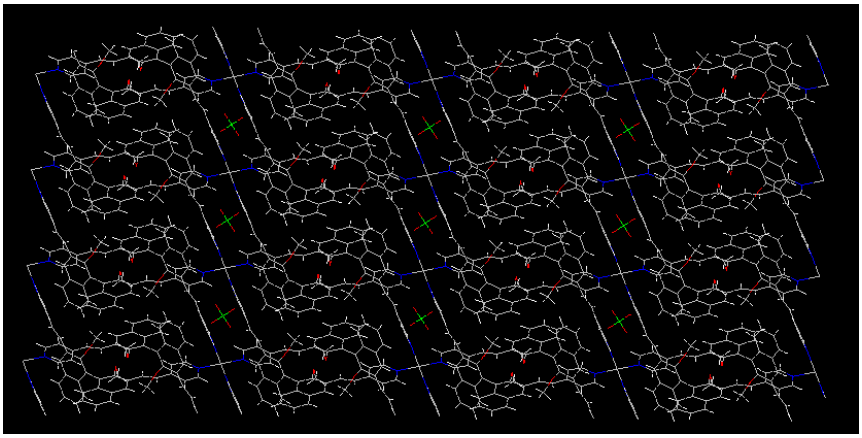

Fig. S6.Packing diagram of **2** viewed down the b-axis.

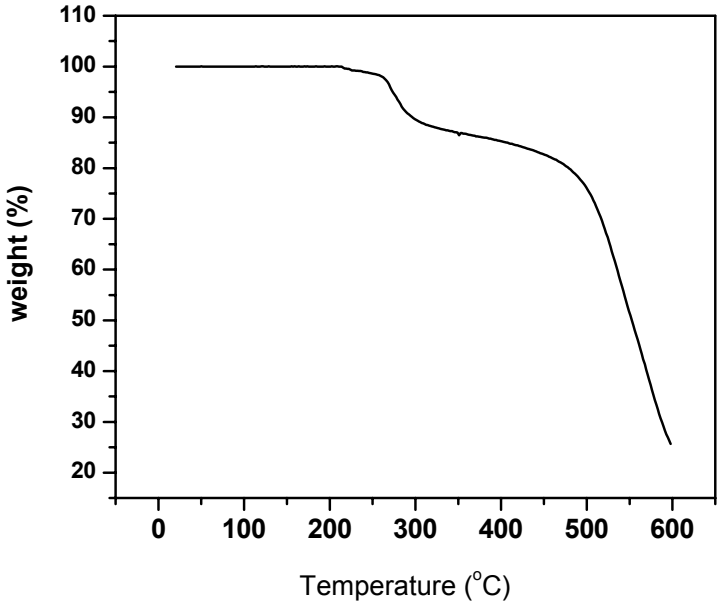

Figure S7. TGA curve for **1** between 20 and 600°C

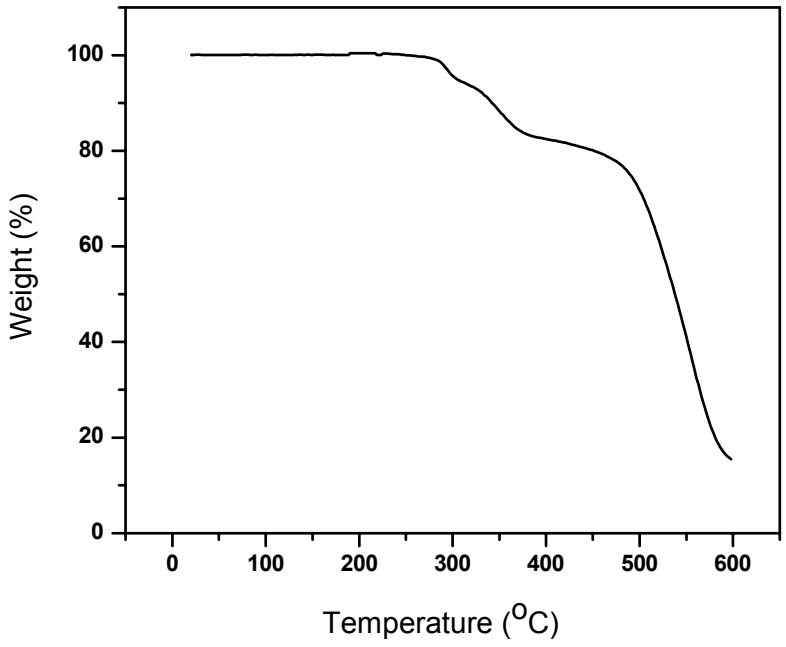

Figure S8. TGA curve for **2** between 20 and 600°C

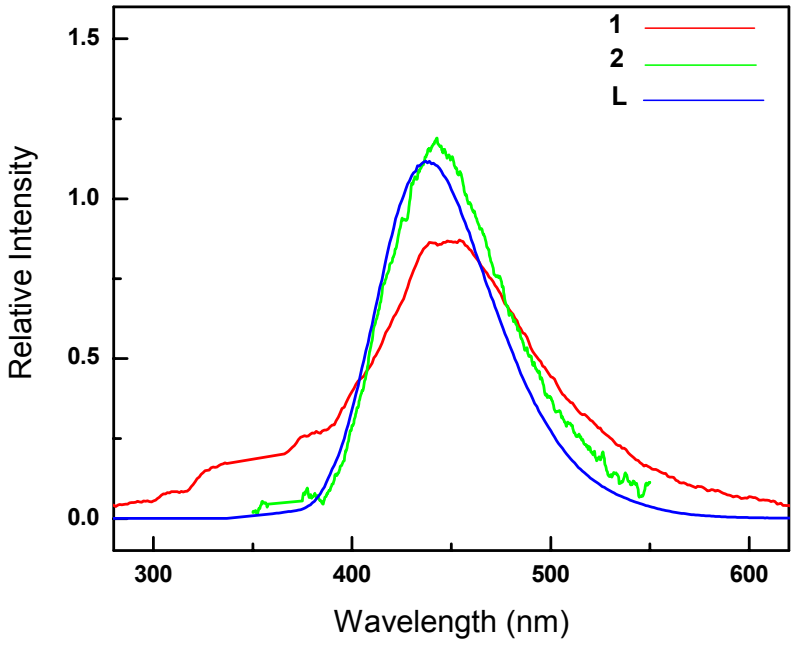

Figure S9. The solid state PL spectra of **1**and **2** and solution PL spectrum of **L**.

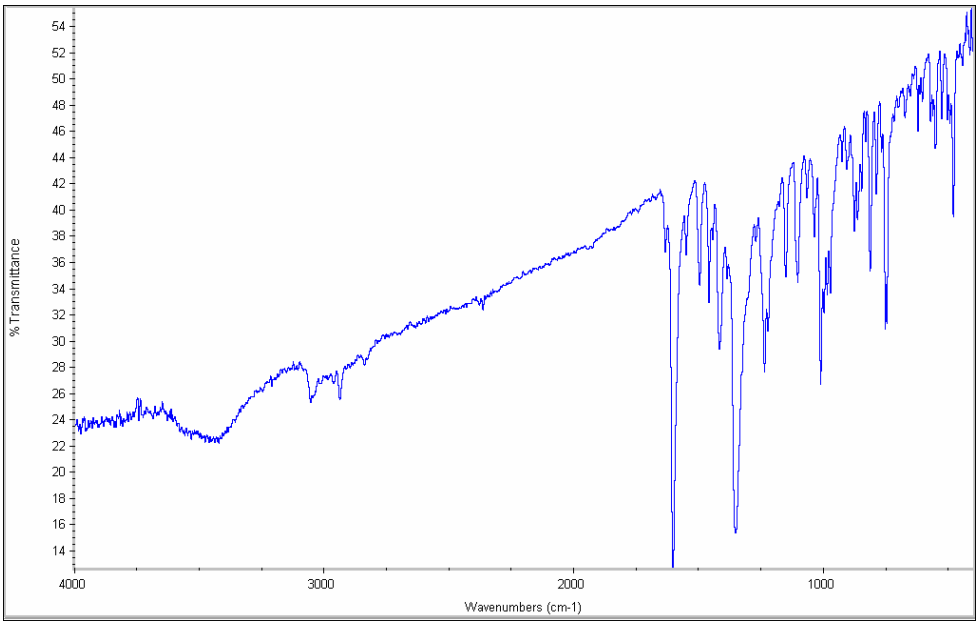

Figure S10. IR spectrum of **1**.

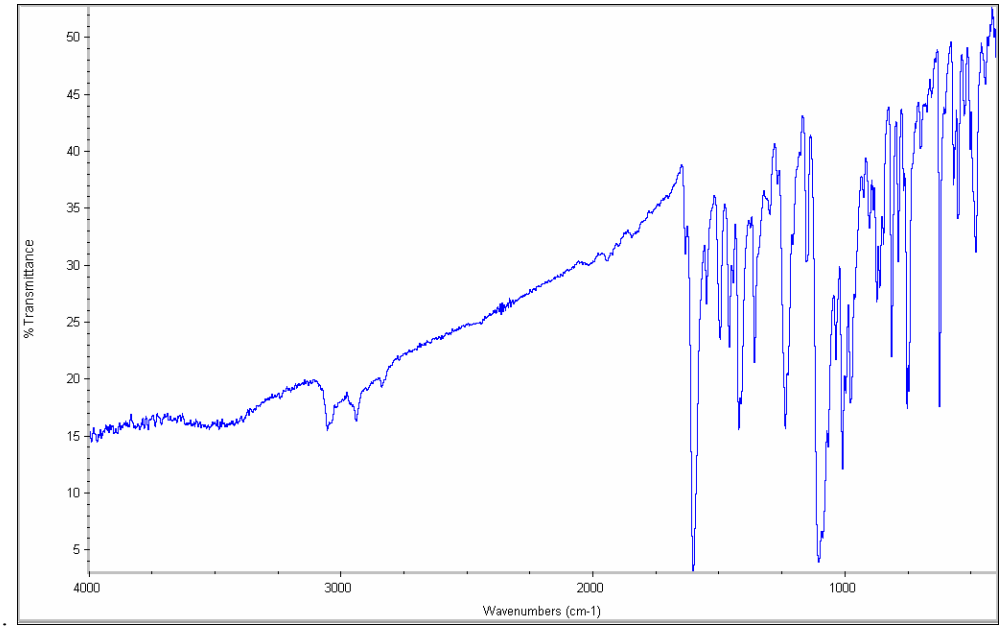

Figure S11. IR spectrum of **2**.

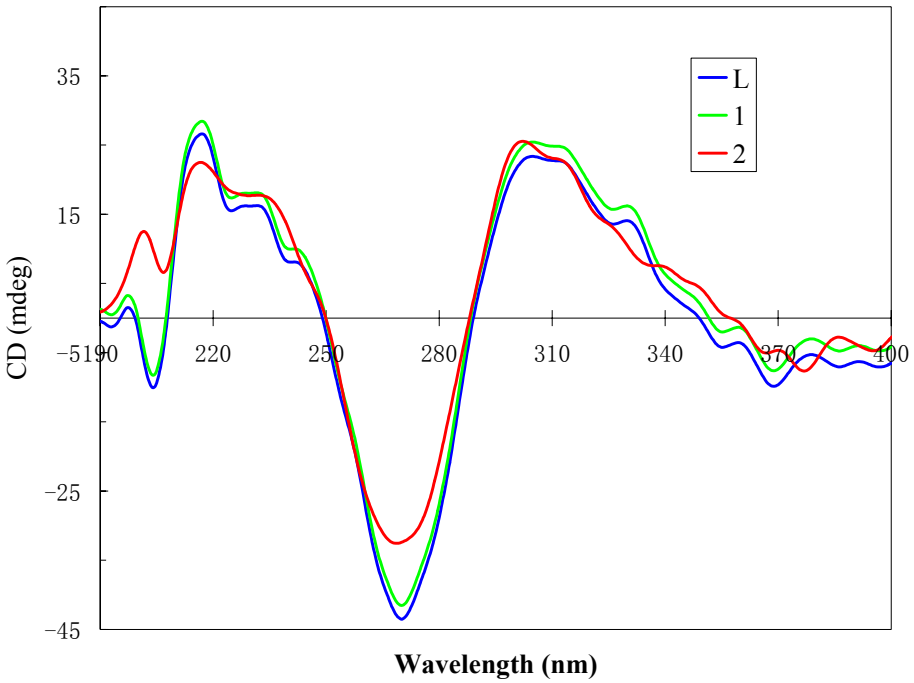

Figure S12. CD spectra of (*S*)-L, (*S*)-**1**, and (*S*)-**2**.