

Supplementary Information

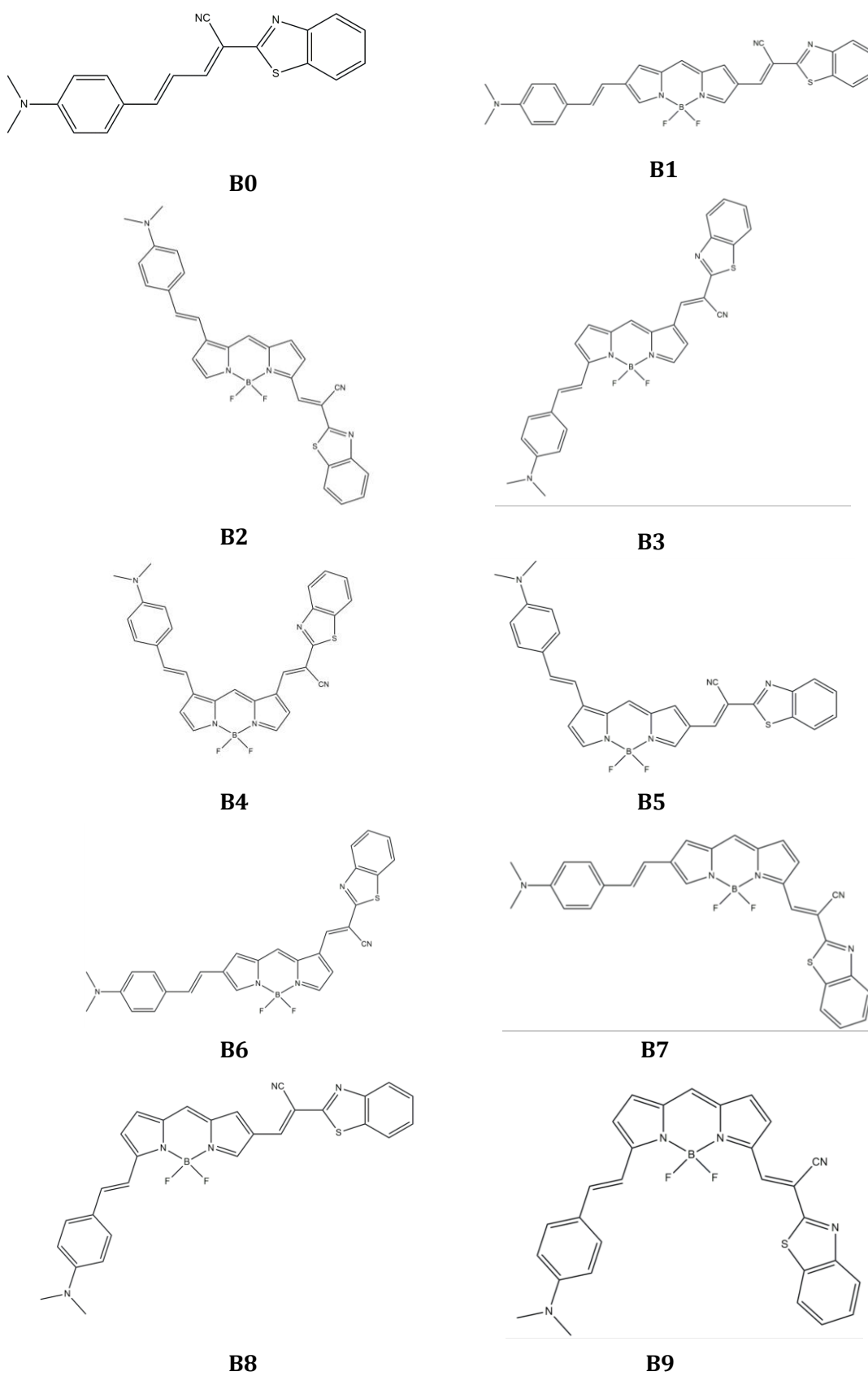


Figure S1. 2D structural representation of B0 and designed B derivatives

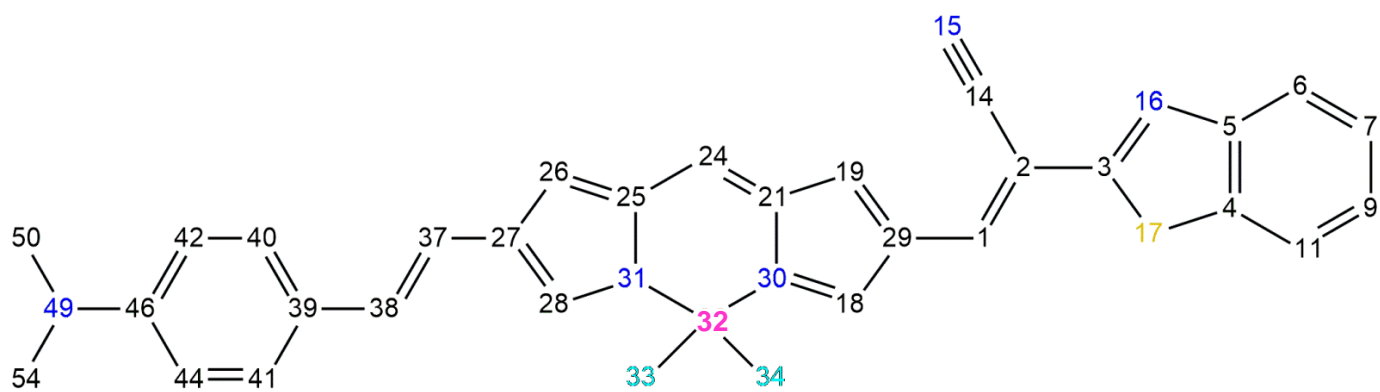


Figure S2. Atom numbering followed in this study.

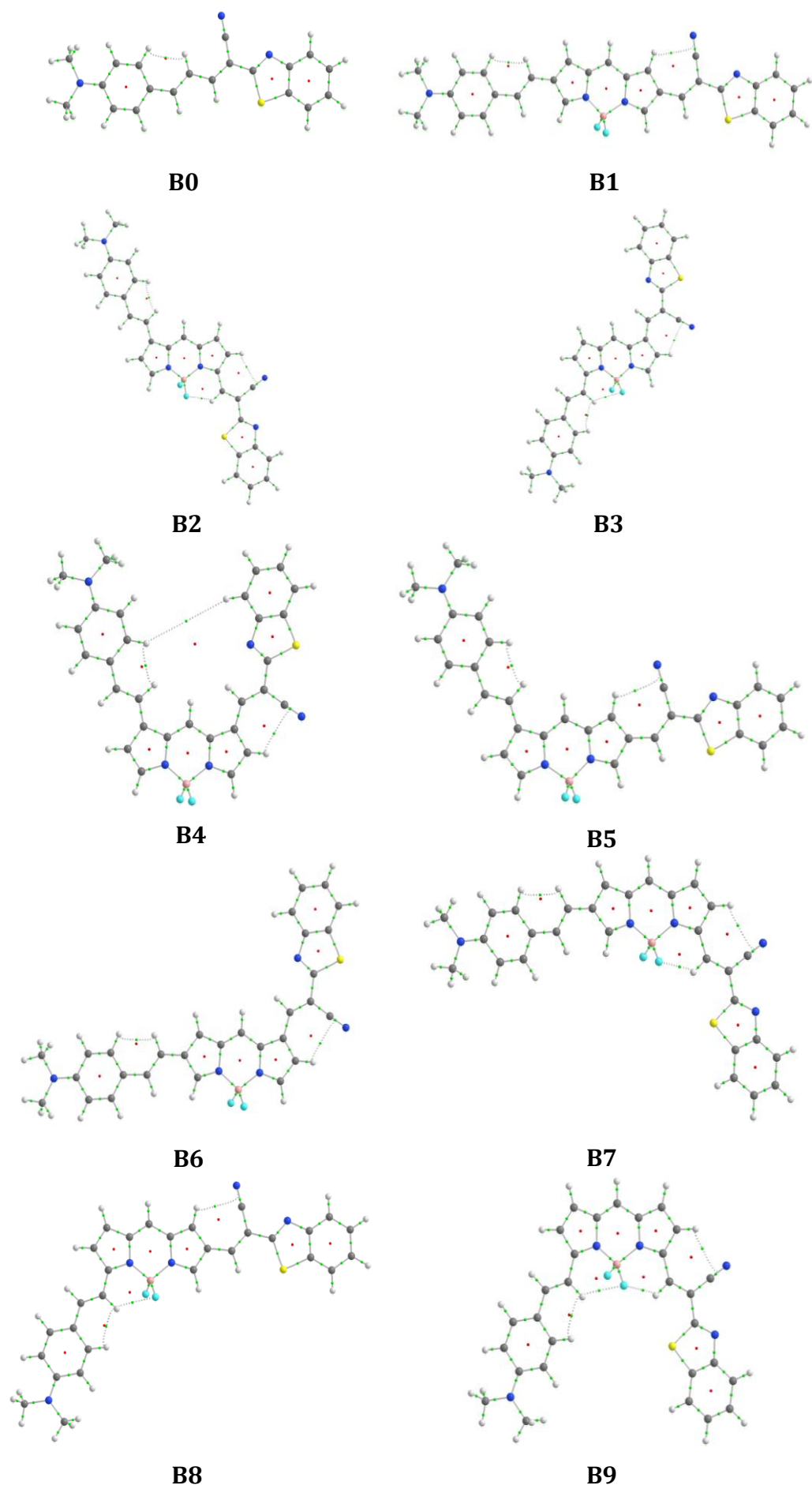
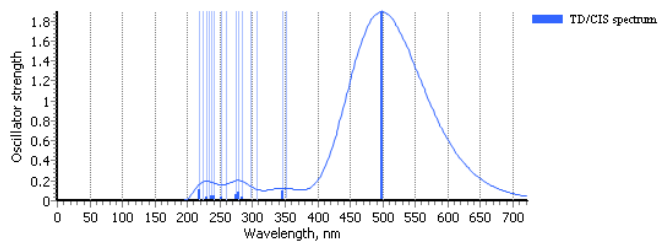
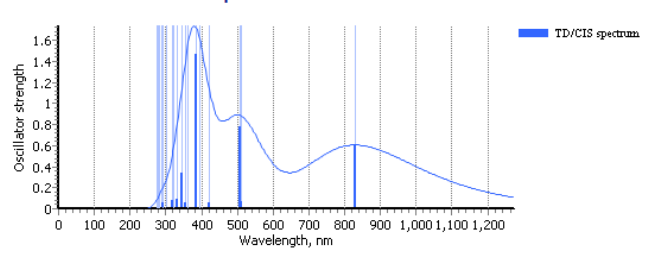


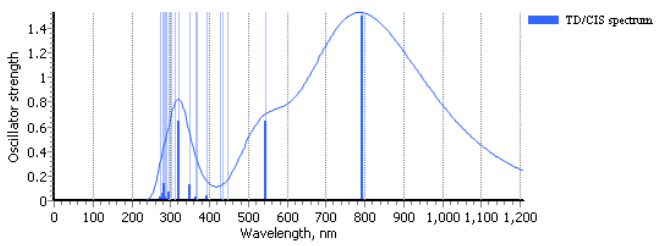
Figure S3. Molecular graphs of B0 and designed B derivatives.



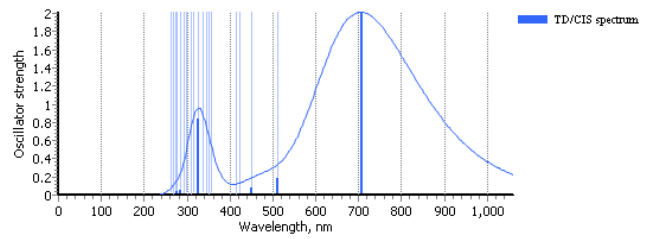
B0



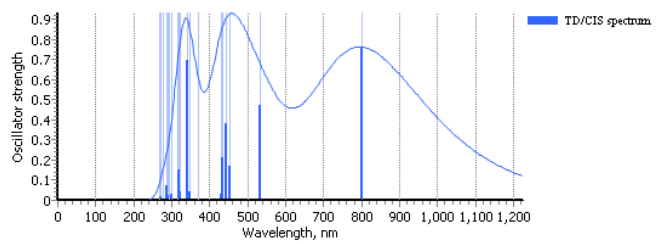
B1



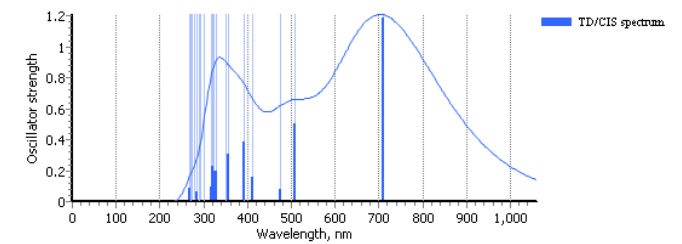
B2



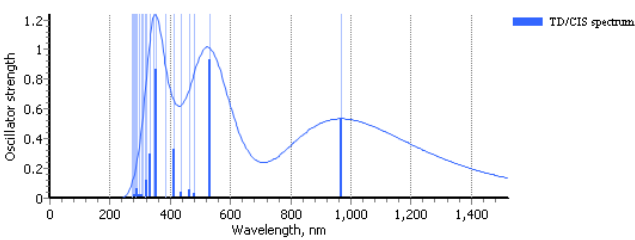
B3



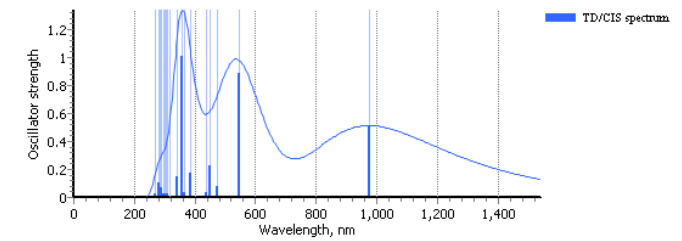
B4



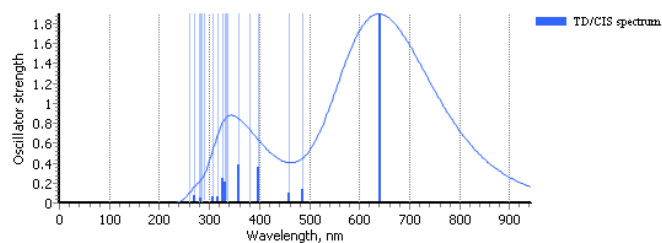
B5



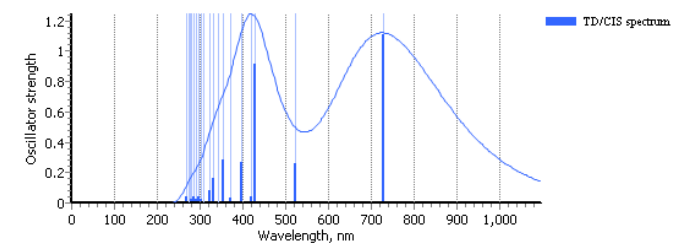
B6



B7

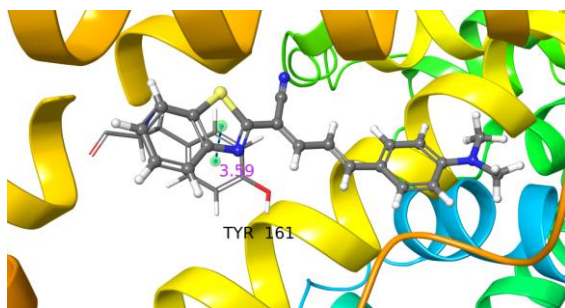


B8

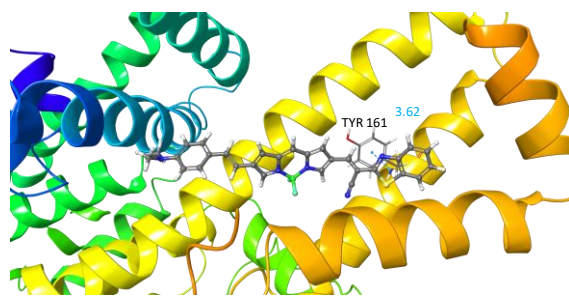


B9

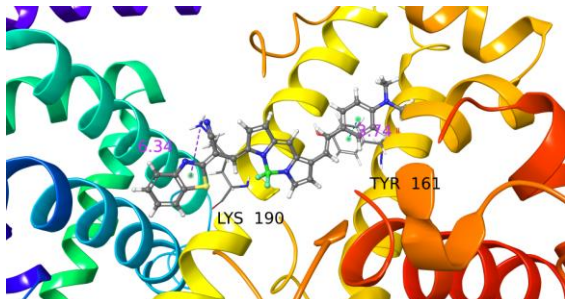
Figure S4. Simulated absorption Spectra of B0 and designed B derivatives at B3PW91/6-31g(d,p) level of theory.



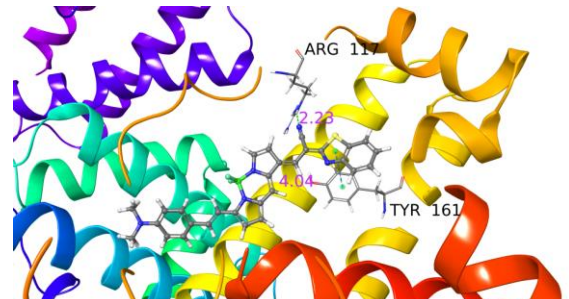
B0



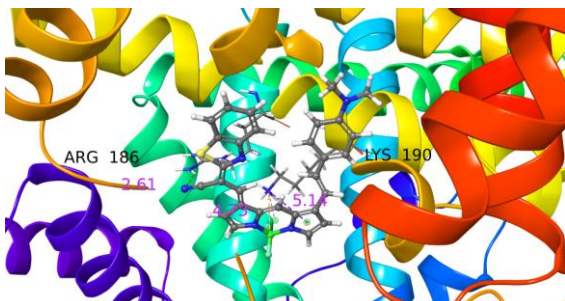
B1



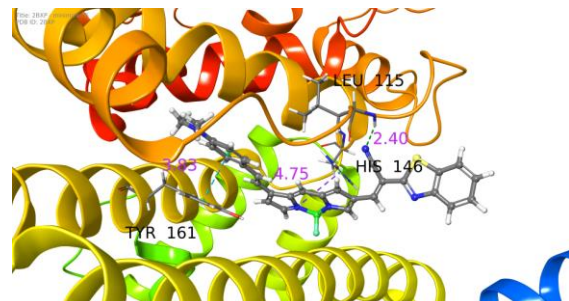
B2



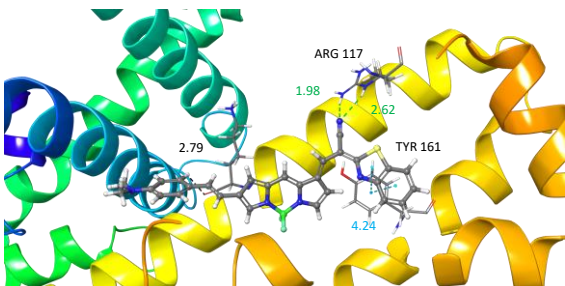
B3



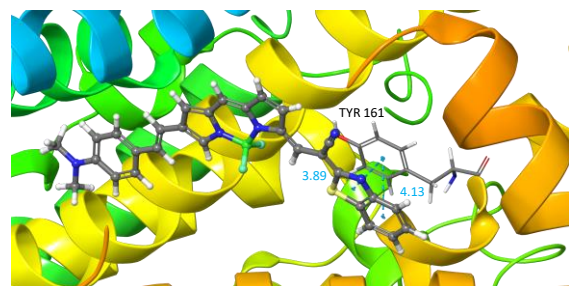
B4



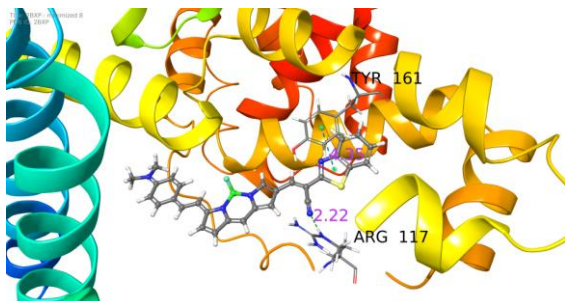
B5



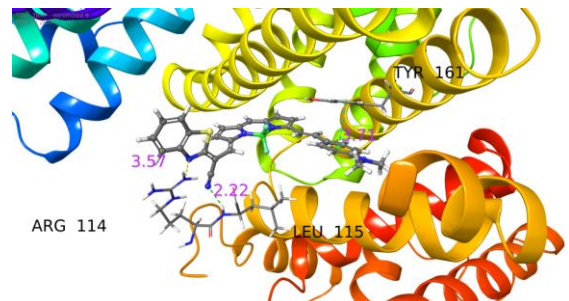
B6



B7



B8



B9

Figure S5. 3D representations of the interactions observed in B0 and designed B derivatives.

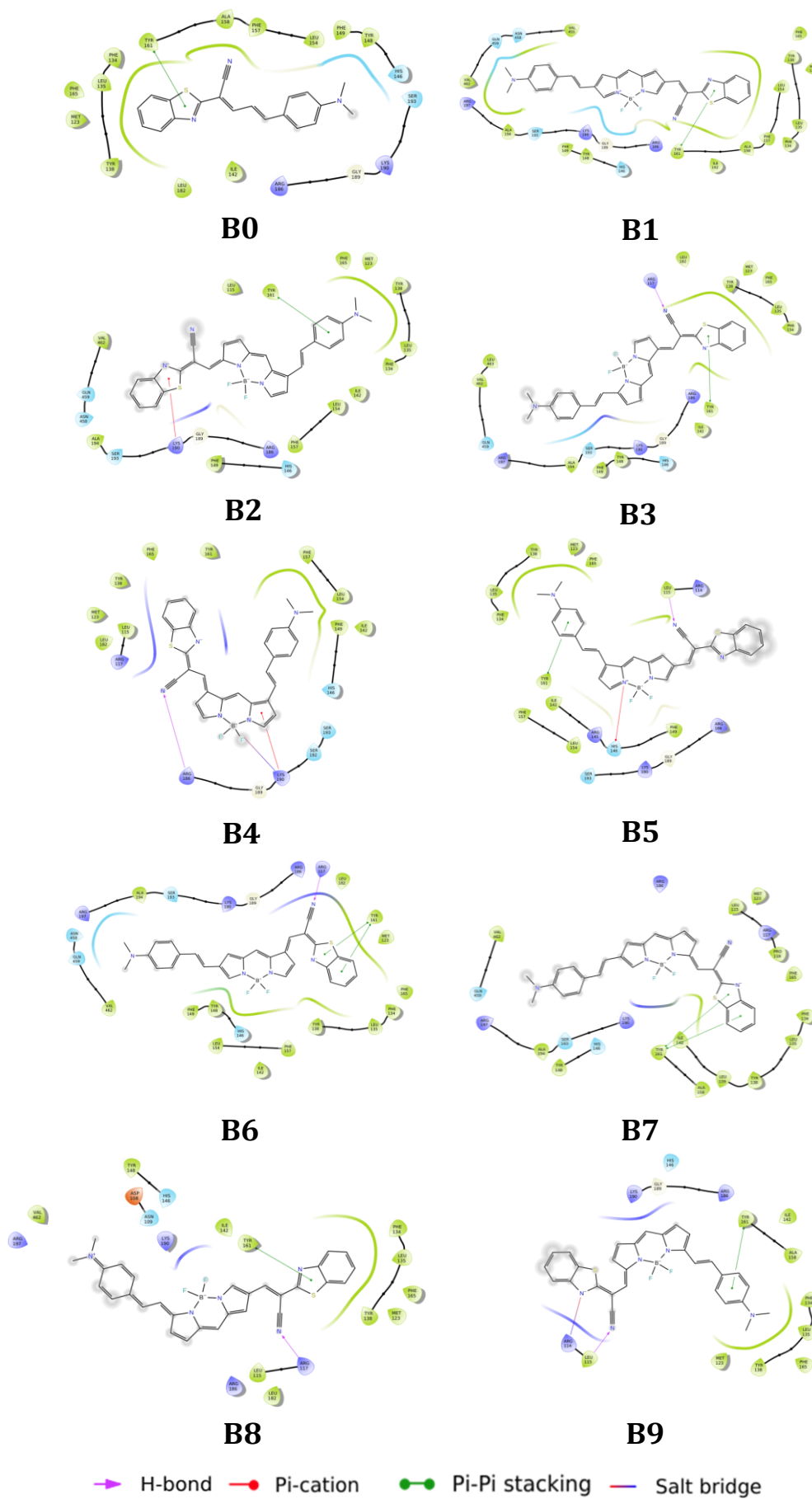


Figure S6. 2D representations of the interactions observed in B0 and designed B derivatives.

Table S1. Selected bond parameters for the molecules obtained from optimized geometries for B0 and designed B derivatives at B3PW91/6-31g(d,p) level of theory.

Bond Parameters		Molecules									
		B0	B1	B2	B3	B4	B5	B6	B7	B8	B9
Bond Length(Å)	C39-C38	1.434	1.452	1.437	1.432	1.437	1.439	1.451	1.451	1.435	1.432
	C38-C37	1.371	1.355	1.366	1.369	1.366	1.365	1.355	1.356	1.367	1.370
	C37-C27	-	1.445	1.426	1.420	1.426	1.428	1.444	1.444	1.423	1.420
	1C-29C	-	1.431	1.425	1.422	1.424	1.429	1.426	1.427	1.428	1.422
	1C-2C	1.379	1.368	1.371	1.374	1.372	1.369	1.370	1.370	1.370	1.374
	2C-14C	1.426	1.428	1.428	1.424	1.424	1.428	1.425	1.429	1.427	1.427
	37C-1C	1.414	-	-	-	-	-	-	-	-	-
	2C-3C	1.452	1.460	1.458	1.462	1.463	1.460	1.464	1.459	1.459	1.457
Bond Angle(°)	1C-2C-3C	124.3	114.8	123.0	120.3	120.3	123.5	120.3	122.9	123.5	122.9
	14C-2C-3C	115.8	105.5	114.5	117.0	117.0	114.9	117.0	114.5	114.8	114.5
	39C-38C-37C	128.1	127.5	127.7	127.3	127.5	127.6	127.4	127.5	127.3	127.3
	37C-1C-2C	126.5	-	-	-	-	-	-	-	-	-
	29C-1C-2C	-	129.8	129.3	129.8	129.7	129.9	129.6	129.2	130.0	129.5
Dihedral Angle(°)	39C-38C-37C-1C	- 180.0	-	-	-	-	-	-	-	-	-
	38C-37C-1C-2C	180.0	-	-	-	-	-	-	-	-	-
	38C-37C-28C-31C	-	-179.7	179.4	176.3	178.7	179.7	180.0	- 178.1	- 176.0	176.3
	30C-18C-1C-2C	-	-	-173.6	180.0	- 179.7	179.7	- 180.0	173.7	- 179.9	-175.1
	41C-39C-38C-37C	180.0	-179.5	-179.8	-179.8	179.0	179.2	180.0	- 179.0	179.8	179.8
	39C-38C-37C-27C	-	179.9	179.6	-179.9	179.7	- 179.8	- 180.0	- 179.9	- 179.9	179.8

Table S2. FMO Energies of B0 and designed B derivatives from HOMO-2 to LUMO+2 along with HOMO-LUMO energy gap B3PW91/6-31g(d,p) level of theory.

FMO values (in eV)							
S. No	HOMO-2	HOMO-1	HOMO	LUMO	LUMO+1	LUMO+2	Energy Gap
B0	-6.652	-6.394	-5.262	-2.611	-0.799	-0.387	2.651
B1	-6.512	-6.036	-5.015	-3.263	-2.337	-1.223	1.752
B2	-6.712	-5.974	-5.185	-3.465	-2.168	-1.095	1.720
B3	-6.433	-6.049	-5.235	-3.358	-2.085	-1.241	1.877
B4	-6.081	-6.081	-5.198	-3.461	-2.123	-1.106	1.737
B5	-6.577	-6.018	-5.185	-3.236	-2.310	-1.121	1.949
B6	-6.457	-6.094	-5.020	-3.513	-2.080	-1.239	1.507
B7	-6.649	-5.984	-5.017	-3.518	-2.130	-1.243	1.499
B8	-6.505	-5.992	-5.225	-3.130	-2.276	-1.276	2.096
B9	-6.706	-5.974	-5.209	-3.359	-2.133	-1.251	1.850

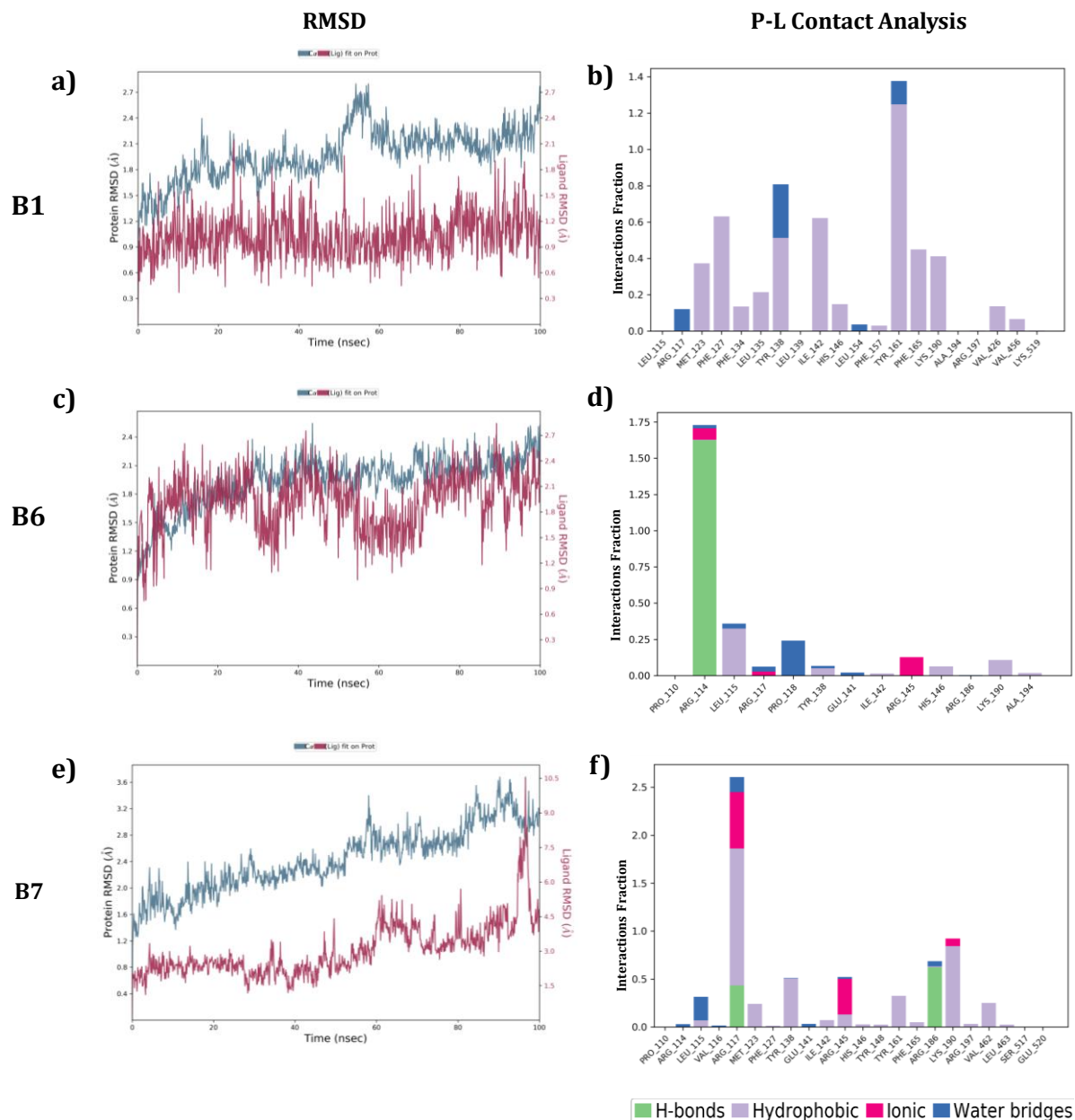


Figure S7. Extended 100 ns plots for MD analysis. (Left) RMSD plots for B1, B6 and B7 with HSA. The blue colour represents the evolution of the backbone C α atoms of the protein, whereas the red colour indicates the molecule's heavy atoms. (Right) Protein–ligand contacts for the top three B derivatives with HSA.

3D Coordinates of Optimized geometries of B0 and B derivatives at B3PW91/6-31g(d,p) level of theory.

B0

Center Atomic Atomic Coordinates (Angstroms)

Number	Number	Type	X	Y	Z
1	6	0	-1.610348	0.151175	2.165316
2	6	0	-0.255364	0.427571	2.392784
3	6	0	0.395201	1.412864	1.637871
4	6	0	-0.309199	2.121698	0.655255
5	6	0	-1.664283	1.845415	0.427932
6	6	0	-2.314894	0.860284	1.183178
7	1	0	-2.106969	-0.601217	2.741673
8	1	0	0.282515	-0.113538	3.142886
9	1	0	0.187578	2.873689	0.078589
10	1	0	-2.202185	2.386491	-0.322232
11	6	0	1.884146	1.716433	1.888412
12	6	0	2.513933	2.669791	1.159482
13	6	0	4.002775	2.972864	1.411008
14	6	0	4.632828	3.927143	0.683726
15	6	0	6.121568	4.229541	0.936358
16	6	0	8.392656	4.578596	1.955926
17	6	0	8.137356	5.374624	0.910530
18	6	0	9.161298	6.427837	0.468773
19	6	0	10.306269	6.571597	1.195127
20	1	0	11.033141	7.300425	0.903015
21	6	0	10.560668	5.686247	2.446576
22	1	0	11.452532	5.820093	3.022572

23	6	0	9.653510	4.739086	2.810418
24	1	0	9.818875	4.120354	3.667572
25	1	0	2.421482	1.174425	2.638389
26	1	0	1.976775	3.211827	0.409513
27	1	0	4.539973	2.429948	2.160371
28	1	0	8.978685	7.040280	-0.389369
29	6	0	3.860653	4.709217	-0.394695
30	7	0	3.286057	5.292137	-1.198143
31	7	0	-3.736468	0.570729	0.945372
32	7	0	6.806517	5.137961	0.280125
33	16	0	7.106586	3.399468	2.154638
34	6	0	-4.771659	1.377271	1.607769
35	1	0	-4.794429	2.354862	1.173377
36	1	0	-5.724928	0.908206	1.480661
37	1	0	-4.549127	1.455819	2.651421
38	6	0	-4.122730	-0.525343	0.045191
39	1	0	-4.487422	-1.349205	0.622384
40	1	0	-4.890591	-0.187571	-0.619038
41	1	0	-3.271335	-0.837074	-0.523008

B1

Center	Atomic	Atomic	Coordinates (Angstroms)		
Number	Number	Type	X	Y	Z

1	6	0	-4.721504	-0.539542	0.190877
2	6	0	-5.570989	0.539214	0.194892
3	6	0	-7.104844	0.320357	0.234786
4	6	0	-9.447934	-0.587846	-0.060725

5	6	0	-9.375877	0.787785	0.019380
6	6	0	-10.522868	1.569852	-0.119528
7	6	0	-11.744998	0.925776	-0.400467
8	1	0	-12.637756	1.504344	-0.511848
9	6	0	-11.796342	-0.482408	-0.539367
10	1	0	-12.722933	-0.962149	-0.773200
11	6	0	-10.631281	-1.252907	-0.367706
12	1	0	-10.654594	-2.317906	-0.466138
13	1	0	-10.475097	2.634115	-0.019772
14	6	0	-5.044955	1.838092	0.163690
15	7	0	-4.615111	2.899551	0.138193
16	7	0	-7.993839	1.299114	0.240317
17	16	0	-7.872939	-1.284790	0.273543
18	6	0	-2.089355	-1.463213	0.130351
19	6	0	-2.538045	0.850402	0.093204
20	1	0	-2.294430	-2.524739	0.141029
21	6	0	-1.054009	0.561796	0.061595
22	1	0	-2.986249	1.810569	0.083598
23	1	0	-5.143980	-1.515703	0.221115
24	6	0	-0.017719	1.458594	0.009693
25	6	0	1.376617	0.822686	-0.251390
26	6	0	2.570441	1.431336	-0.165214
27	6	0	3.656471	0.367295	-0.284434
28	6	0	3.015856	-0.837924	-0.381518
29	6	0	-3.179417	-0.337332	0.136023
30	7	0	-0.891647	-0.902503	0.105485
31	7	0	1.561247	-0.602333	-0.639169
32	5	0	0.565216	-1.554328	0.166230

33	9	0	0.980678	-1.661116	1.557628
34	9	0	0.581334	-2.916608	-0.423567
35	1	0	2.718282	2.477079	-0.058470
36	1	0	3.505621	-1.796568	-0.326465
37	6	0	5.201265	0.607578	-0.206784
38	6	0	6.075204	-0.430789	-0.283035
39	6	0	7.617838	-0.203599	-0.220572
40	6	0	8.146262	1.084567	-0.115365
41	6	0	8.498731	-1.291733	-0.280609
42	6	0	9.542788	1.281259	0.036412
43	1	0	7.485254	1.929527	-0.158121
44	6	0	9.895588	-1.100443	-0.132809
45	1	0	8.107911	-2.275296	-0.447245
46	6	0	10.422442	0.177285	0.147941
47	1	0	9.926595	2.283266	0.064286
48	1	0	10.551535	-1.944272	-0.235273
49	7	0	11.875238	0.355811	0.535975
50	6	0	12.318074	1.716300	0.146313
51	1	0	13.388162	1.796034	0.245426
52	1	0	12.026730	1.858283	-0.865227
53	1	0	11.868840	2.481792	0.769289
54	6	0	12.687102	-0.677704	-0.155433
55	1	0	12.531536	-1.667354	0.260942
56	1	0	12.391541	-0.670101	-1.177987
57	1	0	13.734014	-0.441635	-0.065232
58	1	0	-0.164102	2.524307	0.134364
59	1	0	5.583837	1.609076	-0.103987
60	1	0	5.683646	-1.420748	-0.392295

B2

Center Atomic Atomic Coordinates (Angstroms)

Number Number Type X Y Z

1	6	0	-1.165069	-2.646188	-0.775007
2	6	0	-3.000872	-1.200329	-0.467048
3	1	0	-0.636782	-3.570320	-0.964483
4	6	0	-1.682482	-0.463208	-0.395255
5	6	0	-1.471085	0.876071	-0.189145
6	6	0	-0.004440	1.341764	-0.410047
7	6	0	0.517416	2.539807	-0.101084
8	6	0	2.029179	2.462191	-0.286571
9	6	0	2.314146	1.174244	-0.650376
10	6	0	-2.723359	-2.502949	-0.690823
11	7	0	-0.612822	-1.459798	-0.582596
12	7	0	1.043322	0.472651	-1.011691
13	5	0	0.921953	-1.028733	-0.484288
14	9	0	1.351821	-1.114226	0.904202
15	9	0	1.794223	-1.919197	-1.290603
16	1	0	-0.040708	3.392836	0.195007
17	1	0	-2.266204	1.552922	0.097863
18	6	0	3.707629	0.526519	-0.751647
19	6	0	7.614690	-0.918480	0.487788
20	6	0	8.267316	0.359352	0.496758
21	6	0	9.739760	0.630302	0.857444
22	6	0	10.576670	-0.433236	1.221301

23	1	0	11.599731	-0.244978	1.471908
24	6	0	10.078254	-1.742492	1.258060
25	1	0	10.722070	-2.550450	1.536636
26	6	0	8.256356	-2.274145	0.837124
27	6	0	6.108631	0.660553	-0.123132
28	6	0	4.855477	1.303292	-0.544310
29	1	0	3.799263	-0.514823	-0.979926
30	6	0	4.804110	2.827622	-0.757337
31	7	0	4.765864	3.962555	-0.915945
32	1	0	7.816354	-3.249451	0.845841
33	1	0	10.123165	1.628883	0.830285
34	16	0	6.284696	-0.701619	0.101793
35	7	0	7.314051	1.313996	0.115813
36	1	0	2.730627	3.259795	-0.157350
37	1	0	-3.437463	-3.293316	-0.792187
38	6	0	-4.398578	-0.572681	-0.311889
39	6	0	-5.540485	-1.380122	-0.401393
40	6	0	-6.916702	-0.808767	-0.012577
41	6	0	-7.025043	0.510607	0.427863
42	6	0	-8.054880	-1.610210	-0.100825
43	6	0	-8.271225	1.028130	0.780597
44	1	0	-6.127427	1.141955	0.498058
45	6	0	-9.301657	-1.092378	0.251039
46	1	0	-7.969696	-2.650049	-0.448110
47	6	0	-9.409981	0.226524	0.691833
48	1	0	-8.356610	2.067873	1.128362
49	1	0	-10.198945	-1.724389	0.180967
50	7	0	-10.723302	0.772301	1.063607

51	6	0	-10.729276	2.226063	0.845797
52	1	0	-10.085021	2.696229	1.559084
53	1	0	-10.382347	2.439910	-0.143551
54	1	0	-11.724811	2.600230	0.963316
55	6	0	-11.765418	0.148476	0.235513
56	1	0	-11.853534	-0.886375	0.492844
57	1	0	-12.700064	0.639839	0.408424
58	1	0	-11.501200	0.237888	-0.797490
59	1	0	-5.456297	-2.391868	-0.739304
60	1	0	-4.497672	0.478109	-0.136048

B3

Center	Atomic	Atomic	Coordinates (Angstroms)		
Number	Number	Type	X	Y	Z

1	6	0	-2.648153	1.388620	-0.020723
2	6	0	-0.997929	3.072762	-0.190615
3	6	0	-0.403018	1.669988	-0.154591
4	6	0	0.897499	1.293105	-0.217235
5	6	0	1.164131	-0.212417	-0.401908
6	6	0	2.334856	-0.839690	-0.344077
7	6	0	2.055083	-2.342265	-0.338913
8	6	0	0.707596	-2.483640	-0.396055
9	6	0	-2.338433	2.910831	-0.107967
10	7	0	-1.511179	0.721882	-0.022743
11	7	0	0.084640	-1.163822	-0.694534
12	5	0	-1.237296	-0.840776	0.118465
13	9	0	-1.045065	-1.159557	1.530647

14	9	0	-2.348825	-1.630270	-0.402719
15	1	0	1.692361	2.005519	-0.146996
16	1	0	2.779920	-3.129847	-0.288468
17	1	0	-3.062860	3.697623	-0.102498
18	1	0	0.179518	-3.401642	-0.246258
19	6	0	3.686683	-0.167129	-0.261684
20	6	0	4.758676	-0.909061	-0.155832
21	6	0	7.870591	1.209141	-0.060276
22	6	0	8.522480	0.048915	0.147430
23	6	0	6.106933	-0.260054	-0.072227
24	1	0	3.799353	0.884197	-0.272741
25	6	0	4.725662	-2.448616	-0.059885
26	7	0	4.700706	-3.609201	0.012439
27	6	0	8.664445	2.513722	-0.140174
28	6	0	10.036399	2.412602	0.009992
29	6	0	9.987048	-0.075121	0.292716
30	6	0	10.725384	1.047577	0.239014
31	7	0	6.393187	1.051301	-0.189335
32	16	0	7.489148	-1.359086	0.264279
33	1	0	8.153968	3.455135	-0.305828
34	1	0	10.612584	3.292215	-0.035353
35	1	0	11.769803	0.946376	0.362407
36	1	0	10.376897	-1.060552	0.445843
37	1	0	-0.463900	3.997409	-0.264815
38	6	0	-4.072962	0.790921	0.063196
39	6	0	-5.161630	1.608849	0.093991
40	6	0	-6.585605	1.012663	0.164056
41	6	0	-6.756708	-0.375940	0.191815

42	6	0	-7.711069	1.856583	0.198821
43	6	0	-8.046040	-0.926431	0.256019
44	1	0	-5.903198	-1.015875	0.161883
45	6	0	-9.002644	1.305489	0.261938
46	1	0	-7.586912	2.918986	0.175545
47	6	0	-9.171967	-0.087724	0.290545
48	1	0	-8.169497	-1.986282	0.273582
49	1	0	-9.856544	1.947797	0.284684
50	7	0	-10.525976	-0.671142	0.339321
51	6	0	-11.452815	0.216175	-0.371471
52	1	0	-12.411432	-0.253985	-0.435005
53	1	0	-11.541352	1.139868	0.161725
54	1	0	-11.082505	0.408081	-1.356477
55	6	0	-10.501303	-1.989907	-0.300304
56	1	0	-10.086336	-1.906521	-1.282070
57	1	0	-9.901892	-2.656893	0.284357
58	1	0	-11.499483	-2.368521	-0.364522
59	1	0	-5.035883	2.669607	0.073623
60	1	0	-4.206289	-0.267800	0.095646

B4

Center	Atomic	Atomic	Coordinates (Angstroms)		
Number	Number	Type	X	Y	Z

1	6	0	-1.836799	-5.082847	0.110952
2	6	0	-2.430711	-2.804797	-0.103980
3	6	0	-0.921838	-3.016679	-0.066578
4	6	0	0.070939	-2.097559	-0.149779

5	6	0	1.498370	-2.648146	-0.326099
6	6	0	2.639149	-1.966762	-0.284271
7	6	0	3.782986	-2.980229	-0.260787
8	6	0	3.210008	-4.208927	-0.291937
9	6	0	-2.982201	-4.035266	0.004683
10	7	0	-0.679692	-4.451922	0.093907
11	7	0	1.757288	-4.069117	-0.590497
12	5	0	0.801078	-5.019118	0.243769
13	9	0	1.176066	-4.989950	1.654926
14	9	0	0.904269	-6.388791	-0.249973
15	1	0	-0.130162	-1.048087	-0.100399
16	1	0	4.831497	-2.763657	-0.216750
17	1	0	-4.029716	-4.250761	0.016548
18	1	0	3.725166	-5.131199	-0.124421
19	6	0	2.759105	-0.460273	-0.232615
20	6	0	3.947404	0.078427	-0.139956
21	6	0	3.734821	3.837994	-0.120141
22	6	0	5.065476	3.803328	0.085734
23	6	0	4.085714	1.569750	-0.086817
24	1	0	1.915975	0.177484	-0.254963
25	6	0	5.250212	-0.740786	-0.029915
26	7	0	6.232290	-1.358403	0.053035
27	6	0	3.025336	5.188524	-0.226043
28	6	0	3.818950	6.315191	-0.100211
29	6	0	5.926424	4.997459	0.205190
30	6	0	5.344295	6.207275	0.128092
31	7	0	3.108901	2.488026	-0.220663
32	16	0	5.740331	2.195062	0.233885

33	1	0	1.955156	5.232538	-0.390551
34	1	0	3.361677	7.261033	-0.163842
35	1	0	5.969223	7.052675	0.233172
36	1	0	6.972179	4.827150	0.359774
37	1	0	-1.967112	-6.142251	0.185656
38	6	0	-3.175479	-1.463395	-0.236494
39	6	0	-4.576606	-1.441291	-0.253178
40	6	0	-5.324186	-0.099005	-0.148339
41	6	0	-4.606553	1.092244	-0.036988
42	6	0	-6.718696	-0.074139	-0.164811
43	6	0	-5.283369	2.307981	0.058544
44	1	0	-3.507165	1.072236	-0.023256
45	6	0	-7.395857	1.141970	-0.070252
46	1	0	-7.284458	-1.012920	-0.252747
47	6	0	-6.678469	2.332932	0.041553
48	1	0	-4.717799	3.246923	0.146947
49	1	0	-8.495366	1.161303	-0.083680
50	7	0	-7.391527	3.614463	0.142180
51	6	0	-8.859274	3.646751	0.067493
52	1	0	-9.270016	3.071391	0.870706
53	1	0	-9.198120	4.658791	0.144030
54	1	0	-9.178044	3.233572	-0.866621
55	6	0	-6.636839	4.863707	0.317495
56	1	0	-6.046485	4.801823	1.207750
57	1	0	-5.995758	5.014462	-0.525824
58	1	0	-7.318943	5.684150	0.398171
59	1	0	-2.624102	-0.549824	-0.315690
60	1	0	-5.126032	-2.355475	-0.338614

B5

Center Atomic Atomic Coordinates (Angstroms)

Number Number Type X Y Z

1	6	0	4.006057	0.840019	0.173671
2	6	0	4.309421	-0.499131	0.174893
3	6	0	5.787643	-0.961020	0.235890
4	6	0	8.298056	-1.146395	-0.020408
5	6	0	7.640635	-2.357942	0.042216
6	6	0	8.342375	-3.556265	-0.092302
7	6	0	9.727018	-3.498405	-0.350712
8	1	0	10.286226	-4.403873	-0.458312
9	6	0	10.380672	-2.248227	-0.471979
10	1	0	11.427124	-2.211989	-0.688832
11	6	0	9.657120	-1.052770	-0.305070
12	1	0	10.137356	-0.100638	-0.390353
13	1	0	7.840352	-4.497228	-0.005980
14	6	0	3.276898	-1.445615	0.121687
15	7	0	2.433140	-2.219111	0.078207
16	7	0	6.169621	-2.226872	0.240311
17	16	0	7.170184	0.157911	0.303261
18	6	0	2.027504	2.805674	0.092612
19	6	0	1.439083	0.524070	0.032949
20	1	0	2.668597	3.675923	0.118569
21	6	0	0.223753	1.422688	-0.013039
22	1	0	1.431329	-0.535453	0.017152
23	1	0	4.806435	1.539639	0.220772

24	6	0	-1.096352	1.058674	-0.088234
25	6	0	-2.077783	2.233630	-0.358391
26	6	0	-3.418522	2.196705	-0.293947
27	6	0	-3.939922	3.624898	-0.413383
28	6	0	-2.842132	4.438303	-0.488194
29	6	0	2.527796	1.320563	0.097818
30	7	0	0.705640	2.814339	0.046562
31	7	0	-1.625946	3.601856	-0.731138
32	5	0	-0.330572	4.028700	0.097625
33	9	0	-0.682125	4.295725	1.485108
34	9	0	0.249690	5.269007	-0.475839
35	1	0	-2.873287	5.514055	-0.427476
36	1	0	-1.424108	0.032810	0.025320
37	1	0	-4.964895	3.931297	-0.434562
38	6	0	-4.266519	0.918205	-0.160003
39	6	0	-5.663737	1.009846	-0.102504
40	6	0	-6.511733	-0.268653	0.031440
41	6	0	-5.888748	-1.515361	0.095326
42	6	0	-7.902570	-0.180287	0.089000
43	6	0	-6.656537	-2.673438	0.216066
44	1	0	-4.792256	-1.584746	0.049147
45	6	0	-8.670692	-1.338549	0.210768
46	1	0	-8.393735	0.802246	0.038841
47	6	0	-8.047948	-2.585027	0.274168
48	1	0	-6.165594	-3.656189	0.265796
49	1	0	-9.767267	-1.268539	0.256542
50	7	0	-8.856901	-3.805798	0.401504
51	6	0	-8.153165	-4.928557	-0.234945

52	1	0	-7.842983	-4.643551	-1.218539
53	1	0	-7.294668	-5.188196	0.348554
54	1	0	-8.809602	-5.771173	-0.298114
55	6	0	-10.155204	-3.604277	-0.257813
56	1	0	-10.690036	-4.530678	-0.283011
57	1	0	-10.723128	-2.879265	0.286907
58	1	0	-9.997470	-3.256204	-1.257245
59	1	0	-6.140534	1.966484	-0.151583
60	1	0	-3.789722	-0.038433	-0.110924

B6

Center	Atomic	Atomic	Coordinates (Angstroms)		
Number	Number	Type	X	Y	Z

1	6	0	-1.955169	-3.631348	0.207206
2	6	0	-3.028621	-1.561968	-0.051988
3	1	0	-1.851519	-4.688800	0.318093
4	6	0	-1.528639	-1.430196	-0.037122
5	6	0	-0.772631	-0.312151	-0.157769
6	6	0	0.744550	-0.523905	-0.339029
7	6	0	1.714862	0.416581	-0.314873
8	6	0	3.057859	-0.323993	-0.297682
9	6	0	2.771056	-1.661279	-0.319485

10	6	0	-3.311339	-2.875200	0.093541
11	7	0	-0.971284	-2.760362	0.150933
12	7	0	1.313268	-1.859988	-0.590820
13	5	0	0.601507	-2.982703	0.282323
14	9	0	0.976372	-2.837685	1.686498
15	9	0	0.995563	-4.306218	-0.184235
16	1	0	1.570589	1.479843	-0.291366
17	1	0	3.481125	-2.443004	-0.156959
18	6	0	4.464795	0.343774	-0.251556
19	6	0	5.601515	-0.414967	-0.227214
20	6	0	7.015185	0.245198	-0.171386
21	6	0	7.161132	1.641457	-0.165350
22	6	0	8.167498	-0.559230	-0.111404
23	6	0	8.437653	2.227679	0.005037
24	1	0	6.299995	2.263448	-0.285889
25	6	0	9.444443	0.023697	0.055598
26	1	0	8.074759	-1.622028	-0.187003
27	6	0	9.578764	1.419052	0.201602
28	1	0	8.537263	3.293131	-0.014470
29	1	0	10.314195	-0.599479	0.074814
30	7	0	10.903960	2.027967	0.554917
31	6	0	10.973790	3.405584	0.046419
32	1	0	11.964424	3.790106	0.193141
33	1	0	10.738893	3.427274	-0.992338
34	1	0	10.273824	4.007626	0.585554
35	6	0	11.989731	1.219854	-0.025416
36	1	0	12.025341	0.276940	0.476447
37	1	0	11.815673	1.065914	-1.065899

38	1	0	12.924393	1.730097	0.104744
39	1	0	-1.201028	0.664816	-0.128850
40	1	0	4.540240	1.411857	-0.233472
41	1	0	5.517075	-1.481822	-0.238982
42	1	0	-4.288809	-3.314156	0.128485
43	6	0	-4.004695	-0.413531	-0.193162
44	6	0	-5.279191	-0.687271	-0.205386
45	6	0	-8.417464	1.738814	0.044069
46	6	0	-7.274457	2.523187	0.062138
47	1	0	-3.704927	0.584330	-0.266814
48	6	0	-6.303685	0.420921	-0.125967
49	6	0	-7.398826	4.009661	0.160356
50	6	0	-8.651239	4.548081	0.222325
51	1	0	-8.737621	5.599180	0.277492
52	6	0	-9.945063	3.640414	0.196651
53	1	0	-10.909528	4.036911	0.257055
54	6	0	-9.786717	2.342359	0.092477
55	6	0	-5.858538	-2.108569	-0.263029
56	7	0	-6.301272	-3.194580	-0.307073
57	7	0	-6.006835	1.747148	-0.039152
58	16	0	-8.077371	-0.018950	-0.054428
59	1	0	-6.524053	4.653636	0.172117
60	1	0	-10.581548	1.678510	0.053729

B7

Center	Atomic	Atomic	Coordinates (Angstroms)		
Number	Number	Type	X	Y	Z

1	6	0	2.937111	-2.073359	0.042212
2	6	0	2.438689	-4.373527	0.037638
3	6	0	1.187342	-3.500722	0.013428
4	1	0	2.482299	-5.439665	0.034933
5	6	0	-0.112032	-3.876934	-0.011583
6	6	0	-1.152349	-2.769533	-0.263911
7	6	0	-2.495660	-2.866187	-0.169983
8	6	0	-3.056886	-1.443040	-0.271088
9	6	0	-1.984109	-0.606707	-0.417520
10	6	0	3.484949	-3.522096	0.045218
11	7	0	1.620578	-2.106236	0.048750
12	7	0	-0.749626	-1.411486	-0.670908
13	5	0	0.552550	-0.922394	0.107634
14	9	0	0.229008	-0.656905	1.505492
15	9	0	1.068688	0.301196	-0.505663
16	1	0	-3.058954	-3.765949	-0.034881
17	1	0	-2.023785	0.459506	-0.359345
18	6	0	-4.562801	-1.053367	-0.199431
19	6	0	-4.958929	0.252014	-0.282399
20	6	0	-6.465383	0.649752	-0.188978
21	6	0	-7.466128	-0.327689	-0.045784
22	6	0	-6.840445	2.005356	-0.251257
23	6	0	-8.811935	0.053399	0.157265
24	1	0	-7.204569	-1.364100	-0.077647
25	6	0	-8.185036	2.386889	-0.051929
26	1	0	-6.098032	2.752455	-0.436737
27	6	0	-9.165656	1.415899	0.223597
28	1	0	-9.565832	-0.697171	0.263122

29	1	0	-8.458040	3.419546	-0.105943
30	7	0	-10.555516	1.824684	0.582335
31	6	0	-11.505909	0.766771	0.219525
32	1	0	-12.504967	1.109837	0.403151
33	1	0	-11.400570	0.522265	-0.817188
34	1	0	-11.310869	-0.100977	0.812881
35	6	0	-10.903685	3.076954	-0.102295
36	1	0	-10.288242	3.867348	0.270526
37	1	0	-10.747882	2.969435	-1.156557
38	1	0	-11.934545	3.307615	0.081526
39	1	0	-0.398082	-4.894628	0.128145
40	1	0	-5.298309	-1.821157	-0.073372
41	1	0	-4.220795	1.015106	-0.412071
42	1	0	4.516699	-3.794619	0.056481
43	6	0	3.863708	-0.848535	0.040816
44	6	0	5.233486	-1.017589	0.040246
45	6	0	6.671138	2.622619	0.008662
46	6	0	7.743187	1.859597	0.016526
47	6	0	6.699377	4.078060	0.004196
48	6	0	7.861827	4.705260	-0.005416
49	1	0	7.879122	5.787060	-0.020751
50	6	0	9.177791	3.884169	0.002474
51	1	0	10.140342	4.401719	0.001810
52	6	0	9.137450	2.545622	0.016674
53	1	0	5.762689	4.627203	-0.005000
54	1	0	10.062639	1.992312	0.025773
55	1	0	3.445025	0.130621	0.030415
56	6	0	6.063982	0.221593	0.011778

57	16	0	5.184124	1.719736	-0.034126
58	7	0	7.380870	0.377524	0.008257
59	6	0	5.884531	-2.393929	0.061302
60	7	0	6.379538	-3.440290	0.077310

B8

Center Number	Atomic Number	Atomic Type	Coordinates (Angstroms)		
			X	Y	Z

1	6	0	-3.953531	-0.307317	0.060068
2	6	0	-5.101478	0.398998	0.322162
3	6	0	-6.474946	-0.319127	0.313030
4	6	0	-8.417417	-1.862705	-0.183359
5	6	0	-8.785246	-0.595646	0.220664
6	6	0	-10.130062	-0.228082	0.274306
7	6	0	-11.098739	-1.161091	-0.148209
8	1	0	-12.136044	-0.901912	-0.116781
9	6	0	-10.705671	-2.438013	-0.617126
10	1	0	-11.444548	-3.132886	-0.955668
11	6	0	-9.344870	-2.796285	-0.636252
12	1	0	-9.032419	-3.758340	-0.984503
13	1	0	-10.419095	0.741114	0.623604
14	6	0	-5.025362	1.771051	0.598649

15	7	0	-4.963194	2.892297	0.824599
16	7	0	-7.627892	0.282080	0.552974
17	16	0	-6.680341	-2.053883	-0.028149
18	6	0	-1.178227	-0.267758	-0.224823
19	6	0	-2.348434	1.712618	0.289223
20	1	0	-1.029522	-1.311231	-0.465777
21	6	0	-0.858131	1.947189	0.186130
22	1	0	-3.080779	2.446318	0.508891
23	1	0	-4.035788	-1.348985	-0.141058
24	6	0	-0.173027	3.124468	0.345763
25	6	0	1.325710	3.062099	-0.062419
26	6	0	2.263280	3.996681	0.162565
27	6	0	3.620315	3.407981	-0.208576
28	6	0	3.395584	2.112398	-0.587161
29	6	0	-2.568156	0.401613	0.050696
30	7	0	-0.230583	0.648928	-0.119095
31	7	0	1.926632	1.903491	-0.777722
32	5	0	1.358359	0.520933	-0.218582
33	9	0	1.897478	0.250524	1.106647
34	9	0	1.763749	-0.590988	-1.114804
35	1	0	2.075176	4.980522	0.513994
36	1	0	-0.643675	4.025058	0.720120
37	1	0	4.564567	3.910374	-0.178731
38	6	0	4.502458	1.071376	-0.837562
39	6	0	5.847722	1.430596	-0.678982
40	6	0	6.901715	0.347086	-0.384523
41	6	0	6.516585	-0.989471	-0.276072
42	6	0	8.241366	0.701858	-0.226351

43	6	0	7.470857	-1.970884	-0.008839
44	1	0	5.460235	-1.268746	-0.400062
45	6	0	9.196202	-0.279855	0.039991
46	1	0	8.545110	1.755204	-0.311971
47	6	0	8.811167	-1.616053	0.148899
48	1	0	7.167275	-3.024316	0.077279
49	1	0	10.252447	0.000112	0.164247
50	7	0	9.816725	-2.650687	0.430474
51	6	0	11.247654	-2.338659	0.304055
52	1	0	11.516326	-1.597397	1.027412
53	1	0	11.822277	-3.225534	0.471866
54	1	0	11.445918	-1.965922	-0.679133
55	6	0	9.391355	-3.997350	0.838467
56	1	0	8.739044	-3.924617	1.683512
57	1	0	8.874790	-4.468852	0.028686
58	1	0	10.250609	-4.578806	1.100179
59	1	0	6.142037	2.455939	-0.762353
60	1	0	4.244824	0.075503	-1.132115

B9

Center	Atomic	Atomic	Coordinates (Angstroms)		
Number	Number	Type	X	Y	Z

1	6	0	2.437625	-2.904679	0.304608
2	6	0	2.279768	-5.232844	0.690642
3	6	0	0.919893	-4.575247	0.492762
4	1	0	2.473779	-6.269329	0.881469

5	6	0	-0.308360	-5.143994	0.501220
6	6	0	-1.478063	-4.268782	0.026218
7	6	0	-2.794057	-4.553081	0.099485
8	6	0	-3.538678	-3.284884	-0.286212
9	6	0	-2.616207	-2.336514	-0.534829
10	6	0	3.190999	-4.240371	0.574941
11	7	0	1.141892	-3.143393	0.286857
12	7	0	-1.257031	-2.951872	-0.604428
13	5	0	-0.086001	-2.146262	0.115242
14	9	0	-0.518819	-1.708615	1.439618
15	9	0	0.282152	-0.976608	-0.678645
16	1	0	-3.233996	-5.484991	0.384694
17	1	0	-0.458136	-6.151169	0.820286
18	1	0	4.251046	-4.355042	0.655571
19	1	0	-4.599029	-3.154952	-0.324418
20	6	0	3.132412	-1.537554	0.098085
21	6	0	4.493021	-1.444979	0.151904
22	6	0	5.189837	-0.080744	-0.062203
23	6	0	4.422061	1.062599	-0.311456
24	6	0	6.589689	0.022524	-0.009712
25	6	0	5.044576	2.303858	-0.506789
26	1	0	3.355122	0.988480	-0.351349
27	6	0	7.213088	1.265487	-0.206738
28	1	0	7.183413	-0.846850	0.182353
29	6	0	6.440538	2.408634	-0.450553
30	1	0	4.451104	3.173593	-0.698267
31	1	0	8.280868	1.340668	-0.168550
32	7	0	7.092432	3.717409	-0.636020

33	6	0	8.355230	3.737492	0.114404
34	1	0	9.023751	3.009449	-0.295823
35	1	0	8.799465	4.709420	0.041275
36	1	0	8.163954	3.509518	1.140898
37	6	0	6.196516	4.772009	-0.141000
38	1	0	5.309704	4.795298	-0.739460
39	1	0	5.936584	4.570007	0.876121
40	1	0	6.691402	5.719959	-0.201432
41	1	0	2.548346	-0.662329	-0.086672
42	1	0	5.079614	-2.320739	0.341365
43	6	0	-2.984180	-0.866514	-0.684466
44	6	0	-4.292343	-0.497232	-0.662245
45	6	0	-4.257980	3.306565	0.254639
46	6	0	-5.547389	2.973504	0.124182
47	6	0	-3.815657	4.688966	0.609874
48	6	0	-4.726404	5.633178	0.830047
49	1	0	-4.451120	6.614494	1.108675
50	6	0	-6.622176	4.059202	0.337473
51	6	0	-6.218756	5.311748	0.686643
52	1	0	-6.901770	6.100248	0.859712
53	6	0	-4.554134	0.952797	-0.365063
54	7	0	-5.723083	1.545987	-0.266875
55	16	0	-3.202401	1.981583	-0.010571
56	1	0	-2.786457	4.916093	0.687735
57	1	0	-7.664355	3.851075	0.241336
58	1	0	-2.229919	-0.117630	-0.787295
59	6	0	-5.458586	-1.467342	-0.921886
60	7	0	-6.336872	-2.186000	-1.114948