

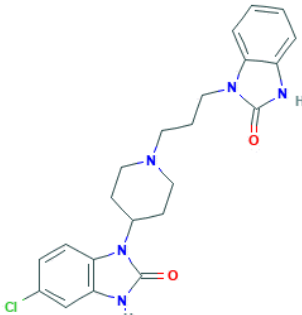
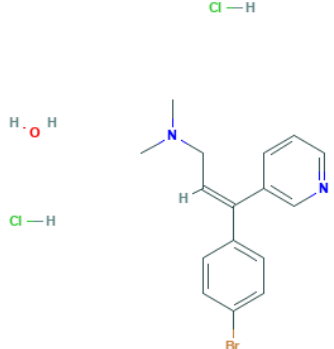
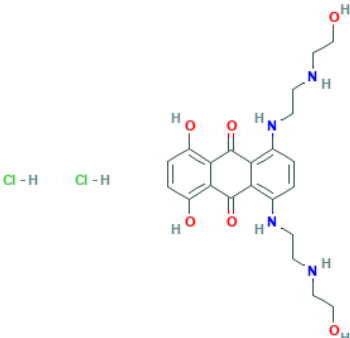
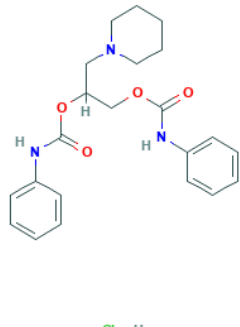
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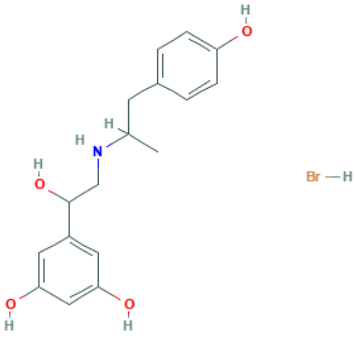
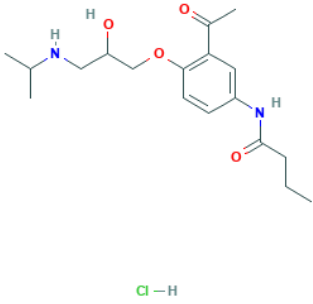
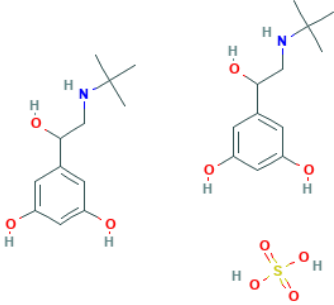
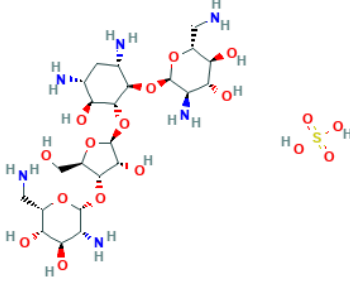
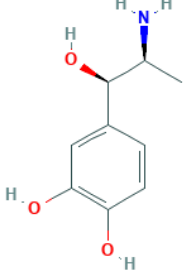
Supporting Information

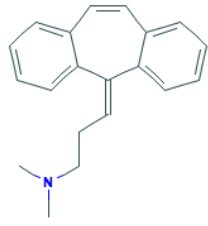
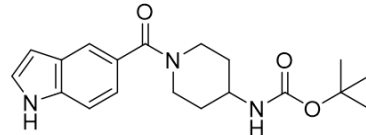
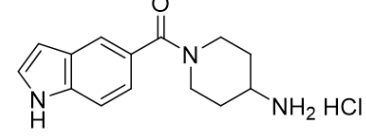
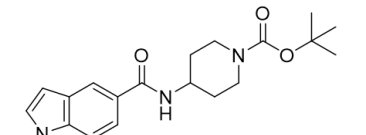
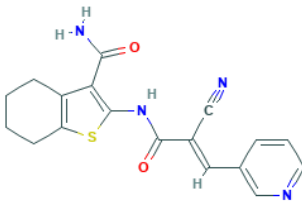
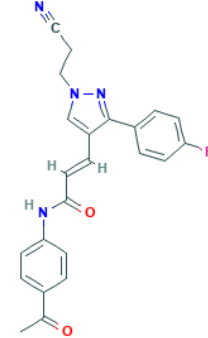
Discovery of an Allosteric Ligand Binding Site in SMYD3 Lysine Methyltransferase

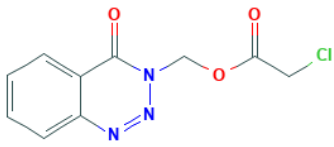
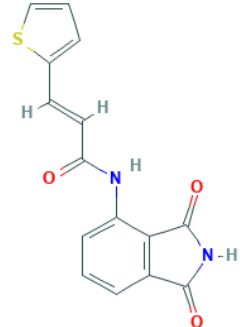
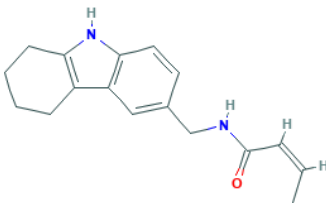
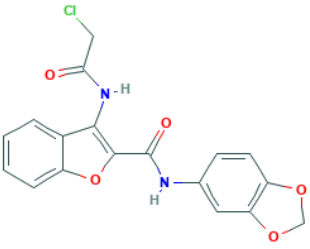
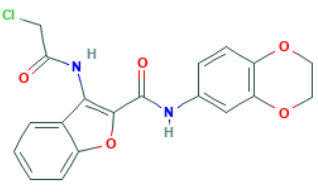
Vladimir O. Talibov⁺, Edoardo Fabini⁺, Edward A. FitzGerald, Daniele Tedesco, Daniela Cederfeldt, Martin J. Talu, Moira M. Rachman, Filip Mihalic, Elisabetta Manoni, Marina Naldi, Paola Sanese, Giovanna Forte, Martina Lepore Signorile, Xavier Barril, Cristiano Simone, Manuela Bartolini, Doreen Dobritzsch, Alberto Del Rio,^{*} and U. Helena Danielson^{*}

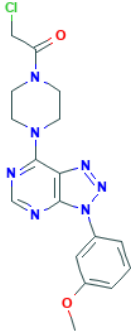
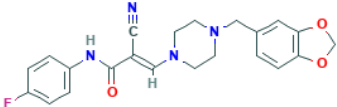
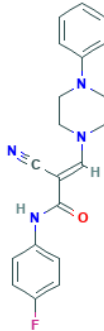
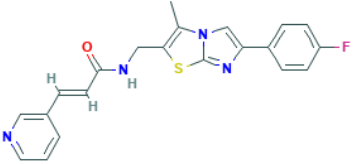
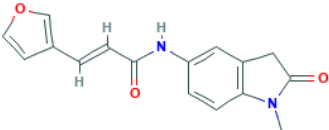
Identities of the compounds screened with the developed SPR biosensor-based assay.

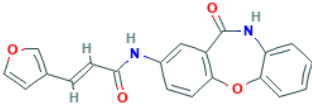
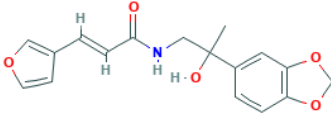
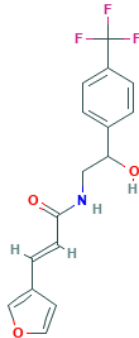
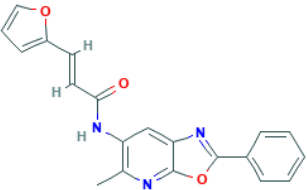
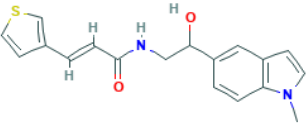
Compound number	Compound name or compound commercial ID or compound internal ID	MW	Structure
1	Domperidone	425.92	 <p>The structure of Domperidone consists of a 4-chloro-1H-benzimidazole ring system. The 2-position of the benzimidazole is substituted with a piperidine ring. The 4-position of the piperidine ring is substituted with a propyl chain, which is further connected to the nitrogen atom of a second benzimidazole ring. The 2-position of this second benzimidazole ring is substituted with a hydrogen atom, and the 4-position is substituted with a hydrogen atom.</p>
2	Zimelidine dihydrochloride monohydrate	408.17	 <p>The structure of Zimelidine dihydrochloride monohydrate shows the zimelidine cation and two chloride counterions. The zimelidine cation is a 2-(4-bromophenyl)-2-(dimethylamino)pyridine derivative. The pyridine ring is substituted at the 2-position with a dimethylamino group and at the 4-position with a 4-bromophenyl group. The pyridine ring is also substituted at the 2-position with a dimethylamino group. The structure also shows a water molecule (H₂O) and a chloride ion (Cl⁻).</p>
3	Mitoxantrone dihydrochloride	517.41	 <p>The structure of Mitoxantrone dihydrochloride shows the mitoxantrone cation and two chloride counterions. The mitoxantrone cation is a naphthoquinone derivative with two diethylamino groups at the 1 and 8 positions. The structure also shows two chloride ions (Cl⁻).</p>
4	Diperodon hydrochloride	433.94	 <p>The structure of Diperodon hydrochloride shows the diperodon cation and a chloride counterion. The diperodon cation is a piperidine derivative with a dimethylamino group at the 4-position and a dimethylamino group at the 1-position. The structure also shows a chloride ion (Cl⁻).</p>

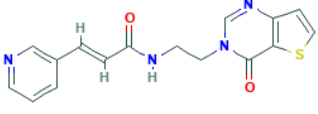
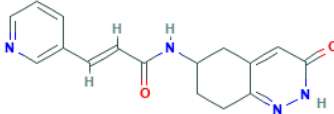
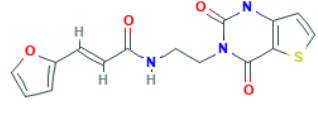
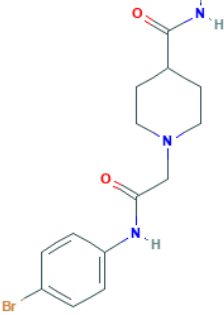
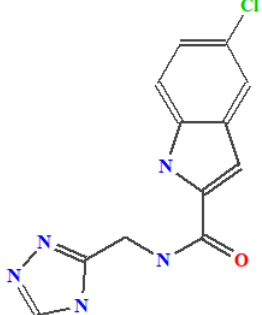
5	Fenoterol hydrobromide	384.27	
6	Acebutolol hydrochloride	327.90	
7	Terbutaline hemisulfate	548.66	
8	Neomycin sulfate	712.73	
9	Levonordefrin	183.21	

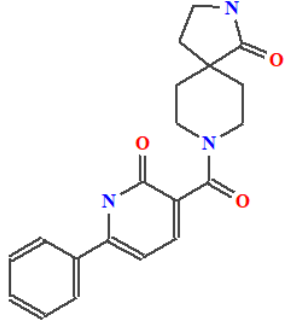
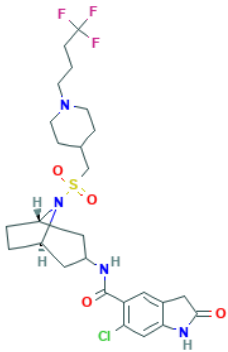
10	Cyclobenzaprine hydrochloride	311.86	 <p>The structure shows a tricyclic system consisting of a benzene ring fused to a seven-membered ring, which is further fused to another benzene ring. A propyl chain is attached to the seven-membered ring, ending in a dimethylamino group. Below the structure is the label "Cl-H".</p>
11	EM74	343.43	 <p>The structure features a benzimidazole ring system connected via a carbonyl group to a piperidine ring. The piperidine ring is further substituted with a tert-butyl carbamate group.</p>
12	EM77	279.77	 <p>The structure is similar to EM74, but the piperidine ring is substituted with a primary amine group (NH₂) instead of a carbamate group. The label "NH₂ HCl" is present.</p>
13	EM80	343.43	 <p>The structure shows a benzimidazole ring system connected via a carbonyl group to a piperidine ring. The piperidine ring is substituted with a tert-butyl carbamate group.</p>
14	F1736-2038	352.41	 <p>The structure is a complex heterocyclic molecule featuring a benzothiazole ring system. It is substituted with a primary amide group, a cyano group, and a pyridine ring.</p>
15	F1683-0387	402.43	 <p>The structure is a complex heterocyclic molecule featuring a benzothiazole ring system. It is substituted with a primary amide group, a cyano group, a fluorophenyl ring, and a piperidine ring.</p>

16	F1045-0033	253.64	 <p>Chemical structure of 2-(chloroacetyl)oxy-N-(1H-benzotriazol-2-yl)methanamine. It features a benzotriazole ring system connected via its nitrogen atom to a methylene group, which is further linked to an oxygen atom. This oxygen atom is part of an ester linkage to a chloroacetyl group (CH₂COCl).</p>
17	F0440-0176	298.32	 <p>Chemical structure of N-(2,3-dioxo-1H-indol-5-yl)acetamide. It consists of an indole-2,3-dione core with an acetamide group (-NHCOCH₃) attached to the 5-position of the indole ring.</p>
18	F0651-0368	268.36	 <p>Chemical structure of N-(2,3-dihydro-1H-indolizin-5-yl)acetamide. It features a 2,3-dihydro-1H-indolizin-5-yl ring system connected to an acetamide group (-NHCOCH₃) at the 5-position.</p>
19	F1883-1392	372.76	 <p>Chemical structure of N-(2-chloroacetyl)acetamide. It shows an acetamide group (-NHCOCH₃) where the nitrogen is further substituted with a 2-chloroacetyl group (-COCH₂Cl).</p>
20	F1883-1544	386.79	 <p>Chemical structure of N-(2-chloroacetyl)acetamide. It features an acetamide group (-NHCOCH₃) where the nitrogen is substituted with a 2-chloroacetyl group (-COCH₂Cl).</p>

21	F2865-0951	387.83	
22	F3225-7671	408.43	
23	F3225-7672	384.84	
24	F6262-6388	392.45	
25	F6436-1245	282.30	

26	F6436-1315	346.34	
27	F6436-2198	315.33	
28	F6436-3052	325.29	
29	F6442-4214	345.36	
30	F6521-7418	326.41	

31	F6523-3565	326.37	
32	F6523-4183	296.33	
33	F6524-3792	331.35	
34	BCI-121	340.22	
35	BB0304929	275.70	

36	BB0304996	351.41	
37	EPZ031686	591.09	
38	NP-6	647.69	Peptide NAFEAP
39	SV-6	708.73	Peptide SNNFEV
40	NK-6	797.87	Peptide NFFDQK

Tables

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Table S1. Results of the conformational search on the low-energy conformers of (*R*)-diperodon in conjugate acid form: relative MM energies (ΔE_{MM} , MMFF94s), absolute and relative DFT electronic energies (E and ΔE , B97D/def2-TZVP/IEFPCM[H₂O]), Boltzmann populations at equilibrium based on DFT electronic energies (χ_E), and DFT free energies (G , B97D/def2-TZVP/IEFPCM[H₂O]).

Conf.	ΔE_{MM} , kcal mol ⁻¹	E , E_h (ΔE , kcal mol ⁻¹)	χ_E , %	G , E_h	Notes
c002	1.268	-1319.8695264 (0.866)	2.79	-1319.459604	
c003	1.283	-1319.8690060 (1.192)	1.61	-1319.458514	
c004	1.954	—	—	—	clustered (c002, RMSD = 0.000 33 Å)
c005	2.074	-1319.8674716 (2.155)	0.32	-1319.456486	
c006	2.340	-1319.8684047 (1.570)	0.85	-1319.457351	
c007	2.391	—	—	—	clustered (c002, RMSD = 0.000 27 Å)
c008	2.496	-1319.8697703 (0.713)	3.61	-1319.458383	
c009	2.694	-1319.8675451 (2.109)	0.34	-1319.456338	
c010	2.725	-1319.8682160 (1.688)	0.70	-1319.456049	
c011	3.268	-1319.8674729 (2.154)	0.32	-1319.456877	
c012	3.507	-1319.8653931 (3.459)	0.04	-1319.453317	
c013	4.168	-1319.8676041 (2.072)	0.36	-1319.454716	
c014	4.184	-1319.8629220 (5.010)	0.00	-1319.452554	
c015	4.296	-1319.8709060 (0.000)	12.03	-1319.457503	
c016	4.300	-1319.8700556 (0.534)	4.89	-1319.458327	
c017	4.394	-1319.8684440 (1.545)	0.89	-1319.459551	
c018	4.443	-1319.8685366 (1.487)	0.98	-1319.454913	
c019	5.056	-1319.8656911 (3.272)	0.05	-1319.453266	
c020	5.146	-1319.8701049 (0.503)	5.15	-1319.455084	
c021	5.262	-1319.8688457 (1.293)	1.36	-1319.457893	
c022	5.413	-1319.8683196 (1.623)	0.78	-1319.456529	
c023	5.730	-1319.8682274 (1.681)	0.71	-1319.459619	
c024	5.751	-1319.8678406 (1.924)	0.47	-1319.456768	
c025	5.790	-1319.8631467 (4.869)	0.00	-1319.450516	
c026	5.798	-1319.8694420 (0.919)	2.55	-1319.455205	
c027	5.934	-1319.8637083 (4.517)	0.01	-1319.454523	
c028	5.943	-1319.8678374 (1.926)	0.47	-1319.458310	
c029	5.973	-1319.8650627 (3.667)	0.02	-1319.453160	
c030	6.176	-1319.8668309 (2.557)	0.16	-1319.457610	
c031	6.179	-1319.8672179 (2.314)	0.24	-1319.456196	
c032	6.201	-1319.8687732 (1.338)	1.26	-1319.454877	
c033	6.220	—	—	—	clustered (c030, RMSD = 0.004 15 Å)
c034	6.225	-1319.8692663 (1.029)	2.12	-1319.454340	
c035	6.245	-1319.8677130 (2.004)	0.41	-1319.457628	
c036	6.270	-1319.8693763 (0.960)	2.38	-1319.458977	
c037	6.275	-1319.8666268 (2.685)	0.13	-1319.455643	
c038	6.377	—	—	—	clustered (c045, RMSD = 0.000 78 Å)
c039	6.492	-1319.8564210 (9.089)	0.00	-1319.445844	
c040	6.605	—	—	—	discarded (imaginary frequency)
c041	6.852	-1319.8657252 (3.251)	0.05	-1319.455794	
c042	7.179	-1319.8669852 (2.460)	0.19	-1319.454533	
c043	7.202	-1319.8649106 (3.762)	0.02	-1319.453210	
c044	7.213	-1319.8598861 (6.915)	0.00	-1319.449137	
c045	7.276	-1319.8673750 (2.216)	0.29	-1319.456160	
c046	7.296	-1319.8608397 (6.317)	0.00	-1319.451472	
c047	7.297	-1319.8622176 (5.452)	0.00	-1319.454033	
c048	7.323	-1319.8624830 (5.286)	0.00	-1319.453618	
c049	7.327	—	—	—	discarded (imaginary frequency)
c050	7.376	-1319.8615641 (5.862)	0.00	-1319.451188	
c051	7.534	-1319.8660844 (3.026)	0.07	-1319.454398	
c052	7.670	—	—	—	clustered (c034, RMSD = 0.000 43 Å)
c053	7.705	-1319.8675127 (2.129)	0.33	-1319.453255	
c054	7.720	-1319.8682880 (1.643)	0.75	-1319.454355	
c055	7.727	-1319.8669795 (2.464)	0.19	-1319.456214	
c056	7.790	-1319.8660706 (3.034)	0.07	-1319.454376	
c057	7.832	-1319.8658051 (3.201)	0.05	-1319.454016	

Table S1. (Continued)

Conf.	ΔE_{MM} , kcal mol ⁻¹	E, E_{h} (ΔE , kcal mol ⁻¹)	χ_{E} , %	G, E_{h}	Notes
c058	7.882	-1319.8591729 (7.363)	0.00	-1319.448316	
c059	7.893	-1319.8632453 (4.807)	0.00	-1319.450879	
c060	7.939	-1319.8668650 (2.536)	0.17	-1319.454806	
c061	7.947	-1319.8620434 (5.561)	0.00	-1319.450489	
c062	7.963	-1319.8608719 (6.296)	0.00	-1319.450945	
c063	8.003	-1319.8629887 (4.968)	0.00	-1319.450293	
c064	8.095	-1319.8658471 (3.175)	0.06	-1319.453765	
c065	8.096	-1319.8663687 (2.847)	0.10	-1319.455591	
c066	8.167	-1319.8654229 (3.441)	0.04	-1319.453361	
c067	8.217	-1319.8663302 (2.871)	0.09	-1319.453179	
c068	8.310	-1319.8671323 (2.368)	0.22	-1319.458063	
c069	8.327	—	—	—	clustered (c074, RMSD = 0.000 66 Å)
c070	8.327	—	—	—	clustered (c074, RMSD = 0.000 72 Å)
c071	8.351	-1319.8700254 (0.553)	4.74	-1319.454541	
c072	8.398	-1319.8680357 (1.801)	0.58	-1319.456248	
c073	8.414	-1319.8590182 (7.460)	0.00	-1319.447012	
c074	8.423	-1319.8672536 (2.292)	0.25	-1319.456102	
c075	8.473	-1319.8670840 (2.398)	0.21	-1319.454919	
c076	8.489	-1319.8593942 (7.224)	0.00	-1319.448903	
c077	8.562	-1319.8600411 (6.818)	0.00	-1319.449496	
c078	8.639	-1319.8673315 (2.243)	0.27	-1319.453213	
c079	8.640	—	—	—	clustered (c078, RMSD = 0.000 82 Å)
c080	8.950	-1319.8585472 (7.755)	0.00	-1319.447192	
c081	8.950	-1319.8615106 (5.896)	0.00	-1319.451227	
c082	9.049	-1319.8647461 (3.865)	0.02	-1319.452645	
c083	9.101	-1319.8684360 (1.550)	0.88	-1319.454185	
c084	9.114	-1319.8589894 (7.478)	0.00	-1319.448519	
c085	9.153	-1319.8591140 (7.400)	0.00	-1319.448909	
c086	9.165	-1319.8630730 (4.915)	0.00	-1319.452966	
c087	9.166	-1319.8617350 (5.755)	0.00	-1319.449401	
c088	9.208	—	—	—	clustered (c053, RMSD = 0.000 48 Å)
c089	9.300	-1319.8650024 (3.705)	0.02	-1319.453980	
c090	9.310	-1319.8584467 (7.818)	0.00	-1319.446486	
c091	9.334	-1319.8606955 (6.407)	0.00	-1319.448114	
c092	9.344	-1319.8632868 (4.781)	0.00	-1319.452452	
c093	9.450	-1319.8591194 (7.396)	0.00	-1319.447762	
c094	9.502	-1319.8600951 (6.784)	0.00	-1319.448573	
c095	9.532	-1319.8676082 (2.069)	0.37	-1319.455350	
c096	9.542	-1319.8674433 (2.173)	0.31	-1319.457879	
c097	9.562	-1319.8660410 (3.053)	0.07	-1319.453498	
c098	9.570	-1319.8577996 (8.224)	0.00	-1319.446779	
c099	9.658	-1319.8595498 (7.126)	0.00	-1319.449649	
c100	9.717	-1319.8569040 (8.786)	0.00	-1319.444068	
c101	9.718	-1319.8602128 (6.710)	0.00	-1319.449842	
c102	9.789	-1319.8608533 (6.308)	0.00	-1319.449713	
c103	9.845	-1319.8565824 (8.988)	0.00	-1319.446059	
c104	9.869	-1319.8537864 (10.743)	0.00	-1319.442011	
c105	9.961	-1319.8586321 (7.702)	0.00	-1319.447537	
c106	9.976	—	—	—	discarded (imaginary frequency)
c107	10.011	-1319.8700331 (0.548)	4.77	-1319.454205	
c108	10.033	-1319.8672694 (2.282)	0.26	-1319.456664	
c109	10.186	-1319.8642409 (4.182)	0.01	-1319.454025	
c110	10.202	-1319.8652644 (3.540)	0.03	-1319.455521	
c111	10.253	-1319.8677304 (1.993)	0.42	-1319.457106	
c112	10.286	-1319.8605442 (6.502)	0.00	-1319.448637	
c113	10.289	-1319.8621018 (5.525)	0.00	-1319.450305	
c114	10.313	-1319.8662496 (2.922)	0.09	-1319.452053	
c115	10.319	-1319.8655166 (3.382)	0.04	-1319.452587	
c116	10.353	-1319.8648457 (3.803)	0.02	-1319.454267	

Table S1. (Continued)

Conf.	ΔE_{MM} , kcal mol ⁻¹	E , E_h (ΔE , kcal mol ⁻¹)	χ_{E_r} %	G , E_h	Notes
c117	10.390	-1319.8704828 (0.266)	7.69	-1319.457231	
c118	10.460	-1319.8665369 (2.742)	0.12	-1319.454774	
c119	10.501	—	—	—	clustered (c185, RMSD = 0.000 27 Å)
c120	10.551	-1319.8609791 (6.229)	0.00	-1319.448870	
c121	10.597	-1319.8564880 (9.047)	0.00	-1319.445753	
c122	10.607	-1319.8696335 (0.799)	3.13	-1319.458032	
c123	10.638	-1319.8629667 (4.982)	0.00	-1319.450517	
c124	10.694	-1319.8579142 (8.152)	0.00	-1319.447232	
c125	10.707	-1319.8580819 (8.047)	0.00	-1319.448331	
c126	10.714	-1319.8647567 (3.859)	0.02	-1319.448945	
c127	10.720	-1319.8695246 (0.867)	2.79	-1319.456125	
c128	10.747	-1319.8669692 (2.470)	0.19	-1319.452501	
c129	10.761	—	—	—	clustered (c026, RMSD = 0.000 76 Å)
c130	10.795	-1319.8609832 (6.227)	0.00	-1319.448132	
c131	10.818	-1319.8594919 (7.162)	0.00	-1319.448332	
c132	10.844	-1319.8676802 (2.024)	0.40	-1319.454470	
c133	10.861	-1319.8555780 (9.618)	0.00	-1319.444381	
c134	10.865	—	—	—	clustered (c185, RMSD = 0.001 06 Å)
c135	10.873	-1319.8586867 (7.668)	0.00	-1319.449848	
c136	10.910	—	—	—	clustered (c185, RMSD = 0.000 95 Å)
c137	10.954	-1319.8693354 (0.986)	2.28	-1319.457749	
c138	10.966	-1319.8630814 (4.910)	0.00	-1319.453233	
c139	11.004	-1319.8663244 (2.875)	0.09	-1319.453089	
c140	11.060	-1319.8633123 (4.765)	0.00	-1319.450109	
c141	11.120	-1319.8610957 (6.156)	0.00	-1319.449170	
c142	11.122	-1319.8606647 (6.427)	0.00	-1319.448830	
c143	11.125	-1319.8625030 (5.273)	0.00	-1319.450726	
c144	11.148	-1319.8688959 (1.261)	1.43	-1319.455340	
c145	11.149	-1319.8655512 (3.360)	0.04	-1319.451631	
c146	11.165	-1319.8590451 (7.443)	0.00	-1319.447680	
c147	11.168	-1319.8600550 (6.809)	0.00	-1319.449479	
c148	11.335	-1319.8585912 (7.728)	0.00	-1319.445555	
c149	11.377	-1319.8655778 (3.343)	0.04	-1319.452847	
c150	11.384	—	—	—	clustered (c217, RMSD = 0.000 30 Å)
c151	11.408	-1319.8610373 (6.193)	0.00	-1319.449455	
c152	11.466	-1319.8652215 (3.567)	0.03	-1319.454487	
c153	11.467	-1319.8656304 (3.310)	0.05	-1319.455135	
c154	11.499	—	—	—	clustered (c122, RMSD = 0.001 41 Å)
c155	11.602	-1319.8647062 (3.890)	0.02	-1319.455694	
c156	11.608	-1319.8582780 (7.924)	0.00	-1319.444654	
c157	11.664	-1319.8642910 (4.151)	0.01	-1319.452966	
c158	11.670	—	—	—	clustered (c169, RMSD = 0.000 80 Å)
c159	11.678	-1319.8589823 (7.482)	0.00	-1319.448061	
c160	11.680	-1319.8589776 (7.485)	0.00	-1319.446829	
c161	11.774	-1319.8625375 (5.251)	0.00	-1319.452248	
c162	11.789	-1319.8605051 (6.527)	0.00	-1319.450194	
c163	11.883	-1319.8596589 (7.058)	0.00	-1319.447785	
c164	11.902	-1319.8570223 (8.712)	0.00	-1319.446068	
c165	11.963	-1319.8605624 (6.491)	0.00	-1319.448348	
c166	11.968	-1319.8634067 (4.706)	0.00	-1319.451493	
c167	11.972	-1319.8601014 (6.780)	0.00	-1319.449570	
c168	11.984	-1319.8602152 (6.709)	0.00	-1319.448726	
c169	12.013	-1319.8597708 (6.987)	0.00	-1319.449443	
c170	12.043	-1319.8543669 (10.378)	0.00	-1319.443880	
c171	12.057	-1319.8653847 (3.465)	0.03	-1319.452584	
c172	12.107	-1319.8584162 (7.837)	0.00	-1319.447353	
c173	12.112	-1319.8621370 (5.503)	0.00	-1319.451515	
c174	12.165	-1319.8617947 (5.717)	0.00	-1319.448997	
c175	12.226	-1319.8584371 (7.824)	0.00	-1319.447072	

Table S1. (Continued)

Conf.	ΔE_{MM} , kcal mol ⁻¹	E , E_h (ΔE , kcal mol ⁻¹)	χ_{E_r} %	G , E_h	Notes
c176	12.240	-1319.8661554 (2.981)	0.08	-1319.453571	
c177	12.244	-1319.8688248 (1.306)	1.33	-1319.455031	
c178	12.309	-1319.8635968 (4.587)	0.01	-1319.449947	
c179	12.311	-1319.8631807 (4.848)	0.00	-1319.448883	
c180	12.312	-1319.8667830 (2.587)	0.15	-1319.454565	
c181	12.343	-1319.8561221 (9.277)	0.00	-1319.445759	
c182	12.351	—	—	—	clustered (c261, RMSD = 0.001 39 Å)
c183	12.363	-1319.8613089 (6.022)	0.00	-1319.448912	
c184	12.366	-1319.8681867 (1.706)	0.68	-1319.456148	
c185	12.372	-1319.8684621 (1.534)	0.90	-1319.454878	
c186	12.399	-1319.8651406 (3.618)	0.03	-1319.451520	
c187	12.399	—	—	—	clustered (c053, RMSD = 0.000 64 Å)
c188	12.417	—	—	—	clustered (c261, RMSD = 0.001 25 Å)
c189	12.420	-1319.8580849 (8.045)	0.00	-1319.447990	
c190	12.454	-1319.8650097 (3.700)	0.02	-1319.455682	
c191	12.474	-1319.8557274 (9.525)	0.00	-1319.444283	
c192	12.476	-1319.8582448 (7.945)	0.00	-1319.447385	
c193	12.492	-1319.8624195 (5.325)	0.00	-1319.450500	
c194	12.528	-1319.8582953 (7.913)	0.00	-1319.445955	
c195	12.553	-1319.8674226 (2.186)	0.30	-1319.456558	
c196	12.571	-1319.8590395 (7.446)	0.00	-1319.446776	
c197	12.681	-1319.8640136 (4.325)	0.01	-1319.451326	
c198	12.709	-1319.8578536 (8.191)	0.00	-1319.448555	
c199	12.741	-1319.8663365 (2.867)	0.10	-1319.451812	
c200	12.784	-1319.8674610 (2.162)	0.31	-1319.454681	
c201	12.787	-1319.8574689 (8.432)	0.00	-1319.445933	
c202	12.839	-1319.8662595 (2.916)	0.09	-1319.451634	
c203	12.859	-1319.8581935 (7.977)	0.00	-1319.448236	
c204	12.877	-1319.8639076 (4.392)	0.01	-1319.451710	
c205	12.908	-1319.8672380 (2.302)	0.25	-1319.452764	
c206	12.912	-1319.8594856 (7.166)	0.00	-1319.446752	
c207	12.935	-1319.8671693 (2.345)	0.23	-1319.451666	
c208	13.004	-1319.8580848 (8.045)	0.00	-1319.446305	
c209	13.063	-1319.8581443 (8.008)	0.00	-1319.449132	
c210	13.065	-1319.8635650 (4.607)	0.01	-1319.450725	
c211	13.072	-1319.8575252 (8.397)	0.00	-1319.446068	
c212	13.189	-1319.8652355 (3.558)	0.03	-1319.451897	
c213	13.194	-1319.8656933 (3.271)	0.05	-1319.451584	
c214	13.210	-1319.8604875 (6.538)	0.00	-1319.449938	
c215	13.234	-1319.8639820 (4.345)	0.01	-1319.448675	
c216	13.257	-1319.8640352 (4.311)	0.01	-1319.452871	
c217	13.314	-1319.8669905 (2.457)	0.19	-1319.453004	
c218	13.352	-1319.8616272 (5.823)	0.00	-1319.449622	
c219	13.475	-1319.8510990 (12.429)	0.00	-1319.442746	
c220	13.477	-1319.8568340 (8.830)	0.00	-1319.446257	
c221	13.537	-1319.8652590 (3.544)	0.03	-1319.453066	
c222	13.542	-1319.8650983 (3.644)	0.03	-1319.453369	
c223	13.550	—	—	—	clustered (c074, RMSD = 0.000 86 Å)
c224	13.554	-1319.8590075 (7.466)	0.00	-1319.444077	
c225	13.559	-1319.8620549 (5.554)	0.00	-1319.451716	
c226	13.598	-1319.8564140 (9.094)	0.00	-1319.443954	
c227	13.635	-1319.8567126 (8.906)	0.00	-1319.447865	
c228	13.678	-1319.8620605 (5.551)	0.00	-1319.450485	
c229	13.703	-1319.8513742 (12.256)	0.00	-1319.441156	
c230	13.709	-1319.8641816 (4.220)	0.01	-1319.450048	
c231	13.715	-1319.8683214 (1.622)	0.78	-1319.454169	
c232	13.718	-1319.8582351 (7.951)	0.00	-1319.448424	
c233	13.737	-1319.8578942 (8.165)	0.00	-1319.446778	
c234	13.787	-1319.8648352 (3.809)	0.02	-1319.453726	

Table S1. (Continued)

Conf.	ΔE_{MM} , kcal mol ⁻¹	E , E_h (ΔE , kcal mol ⁻¹)	χ_{E_r} %	G , E_h	Notes
c235	13.792	—	—	—	clustered (c240, RMSD = 0.001 05 Å)
c236	13.810	—	—	—	clustered (c240, RMSD = 0.000 69 Å)
c237	13.823	-1319.8592526 (7.313)	0.00	-1319.445299	
c238	13.841	-1319.8632962 (4.775)	0.00	-1319.448387	
c239	13.866	-1319.8524923 (11.555)	0.00	-1319.441682	
c240	13.881	-1319.8607141 (6.395)	0.00	-1319.446889	
c241	13.883	—	—	—	clustered (c225, RMSD = 0.000 31 Å)
c242	13.884	-1319.8689825 (1.207)	1.57	-1319.454777	
c243	13.905	-1319.8617108 (5.770)	0.00	-1319.449827	
c244	13.905	—	—	—	discarded (imaginary frequency)
c245	13.959	-1319.8626553 (5.177)	0.00	-1319.450522	
c246	13.963	-1319.8650831 (3.654)	0.03	-1319.450399	
c247	13.966	-1319.8686896 (1.391)	1.15	-1319.455140	
c248	13.980	-1319.8677599 (1.974)	0.43	-1319.454536	
c249	14.010	-1319.8656311 (3.310)	0.05	-1319.452136	
c250	14.021	-1319.8603998 (6.593)	0.00	-1319.449784	
c251	14.033	-1319.8589534 (7.500)	0.00	-1319.448665	
c252	14.047	-1319.8613044 (6.025)	0.00	-1319.451089	
c253	14.050	—	—	—	clustered (c271, RMSD = 0.000 21 Å)
c254	14.091	-1319.8609480 (6.249)	0.00	-1319.447479	
c255	14.097	-1319.8627614 (5.111)	0.00	-1319.453503	
c256	14.141	-1319.8517716 (12.007)	0.00	-1319.441342	
c257	14.147	-1319.8537728 (10.751)	0.00	-1319.441793	
c258	14.150	-1319.8676994 (2.012)	0.40	-1319.454283	
c259	14.159	-1319.8596518 (7.062)	0.00	-1319.443760	
c260	14.163	-1319.8606344 (6.445)	0.00	-1319.448760	
c261	14.182	-1319.8666639 (2.662)	0.13	-1319.452512	
c262	14.186	-1319.8583337 (7.889)	0.00	-1319.445820	
c263	14.311	-1319.8669970 (2.453)	0.19	-1319.455111	
c264	14.352	-1319.8567527 (8.881)	0.00	-1319.445032	
c265	14.355	-1319.8642580 (4.172)	0.01	-1319.451902	
c266	14.360	-1319.8595055 (7.154)	0.00	-1319.445491	
c267	14.370	-1319.8629609 (4.986)	0.00	-1319.451755	
c268	14.377	-1319.8581518 (8.003)	0.00	-1319.444820	
c269	14.405	—	—	—	discarded (imaginary frequency)
c270	14.421	—	—	—	discarded (imaginary frequency)
c271	14.440	-1319.8567337 (8.893)	0.00	-1319.446537	
c272	14.486	-1319.8613667 (5.986)	0.00	-1319.448933	
c273	14.499	-1319.8586650 (7.681)	0.00	-1319.448023	
c274	14.500	—	—	—	clustered (c273, RMSD = 0.000 53 Å)
c275	14.542	-1319.8646063 (3.953)	0.02	-1319.453248	
c276	14.542	-1319.8604673 (6.550)	0.00	-1319.449334	
c277	14.585	-1319.8570739 (8.680)	0.00	-1319.444144	
c278	14.679	-1319.8600121 (6.836)	0.00	-1319.449301	
c279	14.680	-1319.8654580 (3.419)	0.04	-1319.449731	
c280	14.691	-1319.8644153 (4.073)	0.01	-1319.452152	
c281	14.726	-1319.8598409 (6.943)	0.00	-1319.448587	
c282	14.737	-1319.8611860 (6.099)	0.00	-1319.445546	
c283	14.750	-1319.8580983 (8.037)	0.00	-1319.448189	
c284	14.803	-1319.8701662 (0.464)	5.50	-1319.455179	
c285	14.832	—	—	—	clustered (c222, RMSD = 0.000 71 Å)
c286	14.854	-1319.8594435 (7.193)	0.00	-1319.447266	
c287	14.861	-1319.8582337 (7.952)	0.00	-1319.444248	
c288	14.924	—	—	—	discarded (imaginary frequency)
c289	14.935	—	—	—	discarded (imaginary frequency)
c290	14.950	-1319.8607980 (6.343)	0.00	-1319.449140	
c291	14.952	-1319.8590032 (7.469)	0.00	-1319.448659	
c292	14.954	-1319.8598171 (6.958)	0.00	-1319.443600	
c293	14.972	-1319.8567109 (8.908)	0.00	-1319.446058	

Table S2. Oscillator strengths (f_j), rotational strengths in dipole length form (R_j), and excitation wavelengths (λ_j) for the first 50 excited states of the conformers of (R)-diperodon, as calculated by TD-DFT calculations at the PBE0/def2-TZVP/IEFPCM[H₂O] level after DFT optimization at the B97D/def2-TZVP/IEFPCM[H₂O] level.

j	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$				
	c001	c002	c003	c005	c006
1	0.0179; -8.3627 (246.39)	0.0164; 6.2154 (246.18)	0.0202; 7.7549 (246.21)	0.0184; -8.4074 (246.50)	0.0193; -6.9010 (246.00)
2	0.0188; 11.0196 (244.46)	0.0193; 5.4865 (244.31)	0.0218; -10.5837 (244.50)	0.0204; 11.3659 (244.43)	0.0201; -2.9549 (244.22)
3	0.5325; -220.2807 (233.74)	0.9421; -118.5613 (233.70)	0.8728; 149.0347 (233.72)	0.5120; -213.4147 (233.86)	1.1007; -46.3212 (233.26)
4	0.5263; 159.3615 (230.55)	0.1689; 95.4984 (230.67)	0.2517; -128.7751 (230.72)	0.5596; 154.1575 (230.59)	0.0495; 20.9642 (230.41)
5	0.0068; 1.4259 (226.83)	0.0015; -0.7594 (222.99)	0.0019; 0.8404 (223.18)	0.0104; 2.0775 (227.62)	0.0021; 0.0604 (221.63)
6	0.0000; -0.0010 (216.00)	0.0000; 0.0176 (212.25)	0.0000; -0.0034 (212.83)	0.0000; -0.0023 (216.47)	0.0000; 0.0023 (211.34)
7	0.0001; 0.1378 (213.11)	0.0000; 0.0289 (210.94)	0.0000; 0.0557 (210.97)	0.0001; 0.1210 (213.08)	0.0000; -0.0738 (209.66)
8	0.0000; 0.0000 (208.44)	0.0001; 0.0066 (205.79)	0.0000; 0.0069 (206.04)	0.0000; -0.0029 (208.48)	0.0001; 0.0047 (204.85)
9	0.2024; -33.9448 (196.75)	0.2528; 59.2399 (197.02)	0.2398; 62.0668 (196.90)	0.2019; -19.8079 (196.89)	0.2498; 21.2133 (196.67)
10	0.0935; 21.4739 (195.47)	0.2359; -43.0985 (195.28)	0.2674; -0.5588 (195.14)	0.0264; 4.5850 (195.81)	0.2515; -77.6714 (195.15)
11	0.1849; 45.5025 (194.96)	0.0027; -0.2517 (192.99)	0.0172; 6.2716 (192.86)	0.2537; 46.6443 (195.00)	1.0511; -45.3543 (192.28)
12	0.5455; -256.2324 (192.40)	0.9181; -209.0616 (192.42)	0.8324; 141.2125 (192.35)	0.5231; -204.8485 (192.44)	0.0036; -1.7917 (192.04)
13	0.0184; 53.2617 (192.20)	0.0525; 79.2908 (192.19)	0.1626; 0.2452 (191.11)	0.0107; 26.5872 (192.15)	0.1646; -6.2953 (190.86)
14	0.7253; 135.6322 (190.76)	0.2816; 157.7922 (190.96)	0.2454; -178.8436 (190.87)	0.7587; 122.4090 (190.75)	0.0679; 63.8924 (190.32)
15	0.0009; 4.9653 (188.07)	0.0035; -12.8702 (187.15)	0.0020; -11.7512 (187.57)	0.0010; 2.7501 (188.52)	0.0020; 12.9434 (187.47)
16	0.0000; -0.0092 (187.80)	0.0095; -13.3841 (186.45)	0.0007; -0.3766 (186.03)	0.0000; -0.0160 (188.03)	0.0003; -0.0033 (185.39)
17	0.0006; 0.0158 (187.58)	0.0001; 0.2326 (186.32)	0.0000; -0.0026 (185.54)	0.0005; -0.0033 (187.65)	0.0015; 4.1030 (184.90)
18	0.0000; -0.0026 (184.44)	0.0000; 0.0022 (185.32)	0.0196; -7.5063 (182.90)	0.0000; -0.0037 (184.55)	0.0000; 0.0148 (184.67)
19	0.0121; 9.9026 (183.60)	0.0000; -0.0111 (182.66)	0.0001; -0.0262 (182.55)	0.0143; 11.2492 (184.10)	0.0050; 4.7666 (181.93)
20	0.0053; 6.2964 (182.42)	0.0147; 9.9247 (182.21)	0.0112; 4.7009 (182.52)	0.0098; 7.6652 (181.83)	0.0000; 0.0129 (181.92)
21	0.1284; -0.0490 (176.58)	0.1224; -2.6155 (176.33)	0.0449; -6.4464 (177.49)	0.0053; -2.4682 (177.45)	0.1306; -0.5468 (176.38)
22	0.0230; -8.8019 (176.22)	0.0320; -15.7618 (175.91)	0.1227; 2.0297 (176.21)	0.1339; -2.4460 (176.71)	0.0029; -1.4658 (175.00)
23	0.0273; 10.5777 (175.77)	0.0502; 4.1061 (174.32)	0.0112; -3.2786 (173.60)	0.0441; 5.4890 (175.84)	0.0460; 10.6489 (174.30)
24	0.0010; -0.2272 (174.15)	0.0004; 1.3381 (173.55)	0.0006; -0.0337 (173.09)	0.0008; -0.3277 (174.07)	0.0136; 1.6469 (172.81)
25	0.0305; 7.7666 (172.35)	0.0013; 1.0383 (173.51)	0.0270; -1.6330 (172.52)	0.0023; -4.0960 (172.04)	0.0066; 1.8964 (172.50)
26	0.0008; -0.4651 (171.69)	0.0015; -2.7845 (172.03)	0.0005; -0.3172 (171.67)	0.0250; 11.8937 (171.80)	0.0028; -1.5777 (171.58)
27	0.0002; -1.2818 (170.16)	0.0026; 2.2367 (171.26)	0.0008; -0.2070 (169.84)	0.0026; -1.6671 (170.78)	0.0017; -0.4111 (171.20)
28	0.0003; 0.2009 (169.49)	0.0011; -1.8910 (169.62)	0.0003; -1.8313 (169.61)	0.0003; -1.4967 (170.55)	0.0007; -1.0693 (168.93)
29	0.0014; -2.9736 (169.15)	0.0006; -0.1420 (169.19)	0.0011; -1.3705 (168.18)	0.0005; 0.0938 (169.30)	0.0007; 2.5041 (168.48)
30	0.0012; 0.1128 (168.33)	0.0001; 0.7057 (168.75)	0.0011; -0.9674 (168.05)	0.0006; -0.9078 (168.67)	0.0014; 0.5583 (168.02)
31	0.0001; 0.4891 (168.26)	0.0015; -1.4159 (167.82)	0.0003; 1.4756 (166.79)	0.0011; -0.0736 (168.43)	0.0001; -0.0656 (166.54)
32	0.0005; 0.5941 (167.25)	0.0026; 3.9368 (167.09)	0.0000; 0.1031 (166.61)	0.0137; -2.8808 (165.95)	0.0004; 0.3659 (165.84)
33	0.0002; 0.2099 (166.11)	0.0026; -0.6276 (166.05)	0.0419; 1.3215 (165.66)	0.0312; 1.1283 (165.78)	0.0462; 4.3087 (165.67)
34	0.0421; -1.3665 (165.65)	0.0424; -1.0474 (165.82)	0.0002; 1.0121 (164.60)	0.0001; 0.9190 (165.58)	0.0006; -0.7311 (165.48)
35	0.0006; -0.0941 (164.68)	0.0006; -3.0380 (165.02)	0.0008; -0.3571 (163.84)	0.0010; -0.1631 (163.80)	0.0007; -1.3865 (164.73)
36	0.0008; 0.0229 (163.20)	0.0004; -1.7066 (164.18)	0.0010; -0.3945 (163.18)	0.0007; 0.7192 (163.46)	0.0006; -2.3848 (163.15)
37	0.0002; -0.7898 (162.80)	0.0005; 1.2231 (163.20)	0.0163; -3.9434 (162.16)	0.0003; -1.3515 (162.81)	0.0009; 0.5976 (162.56)
38	0.0017; -0.1072 (162.48)	0.0004; -0.1036 (162.85)	0.0071; 5.0549 (162.09)	0.0017; -0.0990 (162.64)	0.0008; 0.8734 (162.22)
39	0.0020; 2.3152 (161.80)	0.0192; 6.5530 (162.17)	0.0003; 0.0088 (162.03)	0.0006; 3.3433 (162.16)	0.0034; -0.4586 (161.86)
40	0.0007; -1.1655 (161.59)	0.0008; -1.9604 (162.03)	0.0013; -1.6959 (161.56)	0.0044; 0.8641 (161.99)	0.0010; -6.0434 (161.62)
41	0.0044; 6.9917 (160.87)	0.0010; 0.1119 (161.53)	0.0161; 7.5032 (160.83)	0.0013; -0.5607 (161.42)	0.0003; -1.5129 (161.40)
42	0.0062; -4.8677 (160.82)	0.0015; -0.9229 (161.16)	0.0124; 2.5340 (160.53)	0.0013; -0.7600 (160.99)	0.0086; 0.8175 (160.67)
43	0.0029; 2.0310 (160.51)	0.0055; 0.3121 (160.89)	0.0054; 6.6125 (159.95)	0.0076; -0.9816 (160.78)	0.0248; -2.4949 (160.60)
44	0.0053; -3.2231 (159.94)	0.0005; -1.1367 (160.67)	0.0002; -0.0604 (159.85)	0.0031; 7.0664 (160.28)	0.0003; 0.1125 (160.22)
45	0.0120; 3.4304 (159.92)	0.0011; 2.4771 (160.54)	0.0018; -6.4790 (159.65)	0.0066; -11.2115 (160.23)	0.0070; 2.8612 (159.96)
46	0.0058; -9.3199 (159.70)	0.0126; -0.7399 (160.06)	0.0057; 8.0630 (159.62)	0.0064; 1.1115 (160.12)	0.0004; -1.6486 (159.81)
47	0.0014; 1.6706 (159.56)	0.0072; 1.2153 (159.44)	0.0074; 3.2286 (158.73)	0.0063; -5.1264 (159.62)	0.0008; 0.1675 (159.17)
48	0.0105; 10.5140 (158.58)	0.0081; -5.6468 (158.41)	0.0039; -2.0304 (158.20)	0.0085; 10.3955 (158.60)	0.0095; -5.9036 (158.18)
49	0.0009; -1.6238 (158.23)	0.0113; 17.8137 (158.10)	0.0150; 24.9758 (157.68)	0.0057; -0.1383 (158.51)	0.0034; 8.5213 (157.86)
50	0.0046; 5.4539 (157.68)	0.0050; 7.9117 (157.67)	0.0202; -9.9410 (157.56)	0.0161; 5.9300 (158.10)	0.0647; -2.3305 (157.26)

Table S2. (Continued)

j	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$				
	c008	c009	c010	c011	c013
1	0.0194; -6.7187 (245.72)	0.0169; 0.7217 (245.83)	0.0153; 9.2280 (245.98)	0.0201; 8.3827 (246.30)	0.0181; -6.7285 (246.02)
2	0.0202; -4.9228 (244.38)	0.0198; -9.1524 (244.76)	0.0196; -1.2225 (244.46)	0.0227; -13.1127 (244.49)	0.0188; 3.0300 (244.16)
3	1.0972; -54.2085 (233.34)	0.8690; -196.6172 (233.40)	1.0185; -95.7638 (233.62)	0.8628; 190.6939 (233.65)	1.0760; -118.1373 (233.57)
4	0.0578; 16.9210 (230.55)	0.2558; 165.6116 (230.53)	0.0997; 97.2719 (230.88)	0.2616; -164.0617 (230.79)	0.0466; 48.8127 (230.83)
5	0.0002; -0.0908 (221.02)	0.0005; 0.1360 (221.45)	0.0009; -0.5394 (220.51)	0.0017; 0.8668 (223.07)	0.0015; 0.0295 (220.87)
6	0.0000; -0.0076 (210.96)	0.0000; 0.0602 (212.76)	0.0002; 0.1227 (213.43)	0.0000; -0.0062 (212.87)	0.0000; -0.0623 (210.90)
7	0.0000; 0.0728 (210.59)	0.0000; 0.0144 (212.12)	0.0000; 0.0115 (210.50)	0.0000; 0.0601 (211.58)	0.0000; 0.0088 (210.56)
8	0.0000; -0.0095 (205.00)	0.0001; -0.0150 (206.97)	0.0001; 0.0180 (207.26)	0.0000; 0.0073 (206.52)	0.0000; 0.0246 (205.54)
9	0.2594; 29.3519 (196.79)	0.2599; -39.9998 (196.51)	0.2284; 331.4878 (196.54)	0.2318; 51.7055 (196.69)	0.2458; 29.7811 (197.12)
10	0.2534; -31.4531 (195.30)	0.2489; 60.0700 (195.19)	0.2322; -312.8116 (196.25)	0.2688; -10.8426 (195.28)	0.2410; 15.5766 (195.60)
11	1.0707; -15.1580 (192.40)	0.9145; -237.6691 (192.29)	0.0315; -42.2983 (193.37)	0.0228; 11.4183 (192.78)	1.1344; -120.0610 (192.51)
12	0.0003; 0.0960 (191.88)	0.0006; -0.1120 (192.00)	0.9901; -55.6717 (192.75)	0.8256; 182.5207 (192.40)	0.0011; 1.6472 (191.82)
13	0.0531; 2.6727 (191.03)	0.0520; 22.7720 (191.00)	0.0443; 3.8373 (191.80)	0.2989; -85.7588 (191.28)	0.0809; 49.8330 (191.36)
14	0.1493; -32.3925 (190.93)	0.3520; 165.9617 (190.82)	0.1043; 116.1482 (191.59)	0.0819; -112.3491 (191.08)	0.0044; -22.4226 (191.18)
15	0.0161; 12.6693 (187.12)	0.0000; 0.0006 (187.14)	0.0672; -19.9685 (188.44)	0.0007; -0.4346 (187.62)	0.0307; 21.2518 (188.82)
16	0.0023; -3.5860 (186.57)	0.0000; -0.0038 (185.38)	0.0004; 0.2604 (187.83)	0.0007; -0.0196 (186.44)	0.0068; -22.3367 (187.01)
17	0.0000; -0.0164 (186.06)	0.0001; 1.9466 (185.28)	0.0011; 6.2234 (187.42)	0.0438; -28.6391 (186.09)	0.0006; -0.3703 (186.48)
18	0.0006; 9.4514 (185.66)	0.0000; -0.0005 (183.01)	0.0000; 0.0081 (184.59)	0.0000; -0.0069 (185.58)	0.0000; 0.0013 (184.37)
19	0.0000; 0.0103 (184.65)	0.0005; -0.3624 (181.86)	0.0000; 0.0001 (183.43)	0.0000; -0.0130 (182.88)	0.0000; 0.0060 (182.59)
20	0.0000; -0.0006 (182.01)	0.0019; 2.9239 (180.96)	0.0131; 8.9949 (181.33)	0.0127; 8.3631 (182.12)	0.0389; 14.8326 (181.58)
21	0.0074; 0.9677 (177.30)	0.0097; -5.7601 (176.30)	0.1181; -6.7707 (177.87)	0.0590; -3.9774 (177.03)	0.1072; -16.7865 (176.24)
22	0.1274; 8.3565 (176.28)	0.1194; 12.6114 (176.19)	0.1116; -8.1734 (176.37)	0.1214; 0.1558 (176.36)	0.0097; 8.6516 (175.36)
23	0.0717; 9.1343 (173.94)	0.0629; -2.5242 (174.78)	0.0071; 4.5954 (175.74)	0.0192; -6.2086 (174.27)	0.0668; 14.1495 (174.78)
24	0.0002; -0.0996 (172.49)	0.0003; -0.5282 (172.94)	0.0029; -2.2296 (173.80)	0.0006; -0.1333 (172.98)	0.0026; -4.4983 (172.76)
25	0.0008; -0.7073 (172.25)	0.0006; 0.2750 (172.33)	0.0005; -0.0379 (173.17)	0.0158; -0.1123 (172.43)	0.0007; -0.4567 (172.50)
26	0.0013; -0.7503 (172.17)	0.0003; -1.2994 (171.92)	0.0071; 1.4159 (172.39)	0.0015; -0.2122 (172.13)	0.0029; -1.0835 (172.45)
27	0.0005; -0.7629 (171.42)	0.0094; 4.0746 (171.69)	0.0036; 0.8613 (171.97)	0.0021; -0.0286 (170.15)	0.0050; 2.9687 (170.97)
28	0.0002; 1.0541 (170.93)	0.0005; 1.1632 (170.17)	0.0003; -0.2263 (170.82)	0.0003; 0.0595 (169.07)	0.0021; -0.5676 (169.40)
29	0.0011; -0.7492 (167.55)	0.0004; -0.2831 (168.08)	0.0010; -0.6510 (168.59)	0.0008; 2.3773 (168.81)	0.0003; -0.1632 (169.19)
30	0.0016; 0.8174 (167.40)	0.0013; -0.0408 (167.83)	0.0014; -0.0849 (168.23)	0.0011; -0.3571 (168.22)	0.0013; 0.8731 (168.05)
31	0.0073; -0.0580 (166.23)	0.0015; -0.2805 (167.54)	0.0002; 1.1381 (167.47)	0.0008; -0.3284 (166.58)	0.0038; -0.0385 (167.84)
32	0.0011; -0.3012 (165.87)	0.0005; -0.4370 (166.55)	0.0045; 0.6276 (167.28)	0.0001; 0.3450 (166.35)	0.0003; -1.0399 (166.44)
33	0.0404; -2.8568 (165.48)	0.0013; -2.3575 (166.31)	0.0067; 9.4240 (166.61)	0.0041; -5.3846 (165.68)	0.0419; -1.7204 (166.09)
34	0.0006; 2.7972 (164.80)	0.0315; 10.9447 (165.23)	0.0009; 1.4603 (165.75)	0.0361; 6.7197 (165.54)	0.0022; -1.9322 (165.48)
35	0.0019; 0.0313 (164.07)	0.0058; -8.8288 (164.96)	0.0147; 24.4790 (165.42)	0.0019; 1.4888 (165.00)	0.0012; 0.4425 (165.20)
36	0.0002; 0.0776 (163.56)	0.0002; 0.2226 (164.81)	0.0300; -33.2920 (165.40)	0.0039; 0.5925 (164.36)	0.0022; -0.2731 (163.69)
37	0.0003; -0.1777 (163.34)	0.0008; -1.5498 (163.64)	0.0007; -1.5416 (164.38)	0.0024; 0.6710 (163.88)	0.0041; 0.6392 (163.13)
38	0.0014; -0.5202 (163.06)	0.0006; 0.4604 (162.65)	0.0008; -1.6707 (163.41)	0.0005; 0.5451 (162.65)	0.0009; 2.2891 (162.86)
39	0.0006; 0.9944 (162.26)	0.0005; 1.2853 (162.15)	0.0011; -1.0153 (161.62)	0.0105; -0.3915 (161.83)	0.0005; 0.7653 (162.73)
40	0.0002; 0.4598 (162.01)	0.0003; 0.1388 (161.85)	0.0021; 3.4691 (161.51)	0.0004; -0.9177 (161.63)	0.0276; -0.6468 (162.27)
41	0.0003; 0.1562 (161.34)	0.0005; 0.5881 (161.09)	0.0008; -1.6122 (161.27)	0.0033; 6.0072 (161.14)	0.0139; 3.9019 (161.00)
42	0.0085; -1.2798 (160.83)	0.0002; -0.1014 (161.03)	0.0054; 0.5514 (160.92)	0.0004; -2.2436 (161.05)	0.0008; 0.5164 (160.89)
43	0.0150; -0.8213 (160.46)	0.0003; 0.0510 (160.68)	0.0002; -0.5678 (160.57)	0.0123; 3.8017 (160.87)	0.0124; -0.0339 (160.47)
44	0.0154; 6.5381 (159.93)	0.0059; -2.6846 (160.09)	0.0027; 1.8983 (160.39)	0.0235; 2.8460 (160.42)	0.0004; 3.0141 (160.30)
45	0.0050; -1.0205 (159.45)	0.0053; 4.1125 (159.90)	0.0009; -3.1371 (160.37)	0.0010; 1.4388 (160.18)	0.0082; 2.5848 (160.14)
46	0.0022; -0.3266 (159.17)	0.0269; 10.6528 (159.01)	0.0046; 0.4581 (160.17)	0.0001; 0.0926 (159.68)	0.0022; 1.4413 (159.44)
47	0.0008; 0.0510 (159.03)	0.0010; -2.2663 (158.90)	0.0004; -0.4976 (158.63)	0.0036; -5.0587 (159.42)	0.0043; 4.8502 (158.71)
48	0.0070; 4.4129 (158.21)	0.0036; 0.9433 (158.00)	0.0040; -1.7832 (158.48)	0.0147; -15.4591 (158.34)	0.0107; 8.0836 (158.29)
49	0.0037; 9.5229 (157.81)	0.0024; 4.0574 (157.63)	0.0310; -19.1087 (158.34)	0.0006; 1.7707 (158.29)	0.0110; 18.3779 (158.08)
50	0.0638; -1.9408 (157.31)	0.0304; -26.6348 (157.04)	0.0231; -4.3723 (158.12)	0.0195; 9.2181 (158.24)	0.0043; 3.6925 (157.71)

Table S2. (Continued)

j	c015	c016	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$	c017	c018	c020
1	0.0157; 16.9946 (247.47)	0.0206; -7.9260 (245.87)	0.0174; -11.5370 (246.75)	0.0190; -9.9121 (245.60)	0.0153; -5.6494 (247.36)	
2	0.0242; -2.1943 (244.70)	0.0220; 14.6297 (244.65)	0.0220; -9.5637 (244.46)	0.0202; -4.2079 (244.43)	0.0059; 6.1839 (244.80)	
3	0.0591; -11.3255 (236.15)	0.7886; 196.0143 (233.61)	0.5045; 102.3680 (233.90)	1.1313; -51.7539 (233.41)	0.0091; 14.7539 (241.93)	
4	0.0015; 3.1673 (234.08)	0.3211; -155.6097 (230.39)	0.5429; -105.3433 (230.41)	0.0276; 12.8126 (230.75)	0.0686; -79.4529 (236.85)	
5	0.7004; -51.9813 (230.34)	0.0018; 0.3853 (222.67)	0.0008; -0.2333 (227.95)	0.0001; -0.0359 (219.93)	0.1130; -417.7516 (233.83)	
6	0.0092; 2.4527 (227.48)	0.0000; 0.0097 (212.67)	0.0000; -0.0010 (216.91)	0.0000; 0.0529 (211.93)	0.6456; 523.3167 (230.27)	
7	0.0570; -12.3425 (224.93)	0.0000; 0.0457 (211.54)	0.0000; 0.0027 (212.76)	0.0000; -0.0060 (210.12)	0.0052; 3.0251 (217.23)	
8	0.0069; 0.7378 (222.72)	0.0000; 0.0047 (206.41)	0.0000; -0.0009 (208.62)	0.0000; 0.0032 (205.69)	0.0040; -3.7640 (212.25)	
9	0.0690; -64.2282 (204.41)	0.2384; -2.0843 (196.96)	0.2241; -47.4280 (197.04)	0.2526; 51.3945 (196.65)	0.0266; -9.5598 (208.34)	
10	0.0238; -20.6406 (202.15)	0.2808; -44.0589 (195.04)	0.0001; 0.1632 (195.86)	0.2481; -74.2146 (195.72)	0.0289; 0.2110 (203.50)	
11	0.0335; 80.1551 (201.74)	0.0207; -13.3952 (192.77)	0.2627; -69.8137 (194.79)	1.1799; -4.1088 (192.42)	0.1415; 129.1586 (198.81)	
12	0.1486; 59.7817 (198.42)	0.7328; 228.8078 (192.57)	0.5620; 269.7194 (192.47)	0.0004; -3.6259 (191.69)	0.1513; -196.0630 (196.98)	
13	0.0296; 112.6334 (195.91)	0.3676; -180.1192 (190.81)	0.0722; 39.0820 (191.37)	0.0024; -0.9294 (191.45)	0.1505; -82.9333 (194.62)	
14	0.0406; -12.8379 (195.76)	0.1713; 29.1134 (190.64)	0.6479; -231.4680 (190.63)	0.0607; -20.7422 (191.29)	0.2074; -145.2862 (193.11)	
15	0.1707; -210.1137 (194.28)	0.0006; 0.1792 (186.55)	0.0001; -0.0389 (188.28)	0.0235; 12.4742 (187.74)	0.3500; 174.4118 (192.58)	
16	0.7006; 46.7071 (191.36)	0.0022; -2.2108 (186.21)	0.0018; -12.3761 (187.91)	0.0000; 0.0089 (186.98)	0.2339; 119.2010 (190.91)	
17	0.3021; 96.2399 (190.33)	0.0001; -1.4917 (186.07)	0.0000; -0.0147 (187.36)	0.0003; 4.2141 (185.76)	0.0088; -13.1835 (190.62)	
18	0.0280; -42.2341 (189.00)	0.0000; 0.0001 (185.70)	0.0297; 13.3398 (186.25)	0.0041; 8.5315 (185.57)	0.1959; 29.6984 (188.59)	
19	0.0333; -17.9255 (184.62)	0.0000; -0.0008 (182.90)	0.0000; -0.0097 (184.65)	0.0000; 0.0083 (184.35)	0.0803; -44.4813 (186.42)	
20	0.0405; 27.2373 (182.30)	0.0049; 5.8516 (182.42)	0.0150; 10.2916 (183.69)	0.0000; -0.0055 (182.44)	0.0982; 43.6603 (184.17)	
21	0.0166; -10.9241 (181.48)	0.0001; -0.0895 (179.55)	0.0028; -0.7628 (176.64)	0.0338; 4.8146 (176.73)	0.0236; 35.8005 (182.39)	
22	0.1299; 42.4329 (178.30)	0.1387; -12.4824 (176.86)	0.1328; 7.8910 (176.43)	0.1273; 1.4423 (176.09)	0.0363; 19.2307 (178.63)	
23	0.0057; -1.3026 (177.11)	0.0258; 1.5003 (174.42)	0.0010; -0.0106 (175.20)	0.0645; 7.8357 (174.43)	0.1000; -32.7320 (177.84)	
24	0.0965; -50.5745 (176.40)	0.0425; 3.2792 (173.18)	0.0021; -0.0354 (174.18)	0.0007; 0.6475 (172.87)	0.0124; 9.0128 (177.09)	
25	0.0019; -2.3551 (173.66)	0.0000; -0.0998 (172.99)	0.0453; 5.9326 (173.44)	0.0004; -0.1485 (172.32)	0.0025; 1.3863 (173.26)	
26	0.0001; -0.1818 (173.34)	0.0006; 0.0520 (172.43)	0.0013; -2.0167 (172.15)	0.0006; -0.1450 (172.07)	0.0063; -1.1226 (172.20)	
27	0.0046; 0.3765 (171.74)	0.0010; 1.5268 (171.32)	0.0001; -0.0984 (171.01)	0.0012; 2.3862 (170.73)	0.0033; -4.7080 (171.42)	
28	0.0022; 3.5980 (170.32)	0.0013; 0.0000 (169.55)	0.0077; 2.8497 (170.46)	0.0004; 0.9741 (169.82)	0.0039; -0.1376 (171.11)	
29	0.0566; 13.2788 (169.41)	0.0004; -0.2235 (168.61)	0.0006; -2.3178 (170.33)	0.0008; -0.5047 (168.49)	0.0250; -1.6672 (170.82)	
30	0.0022; 6.0893 (168.60)	0.0013; 0.1776 (167.59)	0.0003; -0.4420 (169.56)	0.0013; 0.1545 (167.49)	0.0030; -4.0087 (169.72)	
31	0.0237; -14.2409 (168.32)	0.0106; -5.8467 (166.65)	0.0011; -0.9478 (168.16)	0.0012; -0.9237 (167.36)	0.0027; 1.6242 (168.76)	
32	0.0146; -2.9406 (167.88)	0.0008; 0.3020 (166.01)	0.0001; 0.9255 (166.72)	0.0362; -1.6389 (165.49)	0.0002; -0.2989 (167.75)	
33	0.0362; -5.6644 (167.25)	0.0285; 5.1279 (165.88)	0.0455; -4.1941 (165.98)	0.0010; -1.0134 (165.21)	0.0007; 0.0663 (167.23)	
34	0.0086; -6.6135 (166.68)	0.0009; 2.3096 (165.41)	0.0011; 2.4021 (165.95)	0.0019; 0.5139 (165.13)	0.0143; 0.5751 (166.50)	
35	0.0196; 0.5666 (166.15)	0.0089; -5.1420 (164.81)	0.0003; 0.5727 (164.82)	0.0063; -1.2913 (164.89)	0.0011; -0.4309 (165.89)	
36	0.0074; 0.4769 (165.33)	0.0010; 0.6217 (164.06)	0.0136; -7.4550 (163.55)	0.0011; 0.1498 (164.79)	0.0015; 2.6679 (165.41)	
37	0.0032; -1.1972 (164.60)	0.0004; 0.5454 (163.72)	0.0004; 0.1101 (163.44)	0.0036; 4.0195 (163.71)	0.0014; -0.2464 (165.03)	
38	0.0033; 1.8153 (164.34)	0.0002; 0.8060 (162.66)	0.0047; -3.6219 (163.30)	0.0018; -2.7487 (163.10)	0.0075; -13.1022 (164.56)	
39	0.0070; 2.1063 (163.86)	0.0001; 0.4656 (162.23)	0.0017; -3.4321 (162.65)	0.0004; 2.1454 (162.72)	0.0110; 31.4662 (163.92)	
40	0.0030; -2.5324 (163.58)	0.0042; -1.0286 (161.41)	0.0019; 0.6713 (162.44)	0.0003; 0.7315 (161.84)	0.0057; -1.3869 (163.54)	
41	0.0048; 0.8946 (163.17)	0.0018; 0.4397 (160.92)	0.0383; 13.1535 (162.13)	0.0008; 1.6027 (161.30)	0.0363; -26.0986 (163.39)	
42	0.0114; -4.0690 (162.95)	0.0003; 0.2725 (160.56)	0.0007; -4.4306 (161.94)	0.0004; -1.4908 (161.01)	0.0258; 4.4997 (163.22)	
43	0.0026; -5.8629 (162.34)	0.0010; -1.7636 (160.44)	0.0038; 3.1932 (161.29)	0.0008; 0.6432 (160.96)	0.0136; -4.0319 (162.94)	
44	0.0011; -0.2889 (161.64)	0.0164; 0.8160 (159.99)	0.0178; -4.7208 (161.00)	0.0282; 5.4727 (159.59)	0.0536; 37.7889 (162.65)	
45	0.0041; 2.2291 (161.42)	0.0013; 0.1702 (159.43)	0.0024; -4.0222 (160.81)	0.0025; 2.8353 (158.89)	0.0019; -1.0141 (161.99)	
46	0.0115; 5.1053 (160.87)	0.0000; -0.0241 (159.07)	0.0011; 2.1277 (160.40)	0.0031; -0.5631 (158.62)	0.0034; -4.4361 (161.58)	
47	0.0297; -6.3385 (160.24)	0.0400; 1.8540 (158.24)	0.0048; 3.2683 (158.76)	0.0054; 1.3974 (158.07)	0.0129; 0.3239 (160.80)	
48	0.0301; -1.4815 (160.14)	0.0055; -6.6616 (158.13)	0.0006; -0.7684 (158.29)	0.0028; 1.8482 (158.00)	0.0124; 28.4434 (160.31)	
49	0.0294; -11.7192 (159.74)	0.0001; -0.4197 (157.62)	0.0086; -11.7621 (157.97)	0.0362; 21.1529 (157.25)	0.0599; -36.6142 (160.26)	
50	0.0017; -4.3663 (159.48)	0.0481; -41.0587 (157.34)	0.0153; 25.2191 (157.95)	0.0678; 13.0780 (157.17)	0.0010; 3.9020 (160.04)	

Table S2. (Continued)

j	c021	c022	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$	c024	c026
1	0.0174; -5.5212 (246.29)	0.0178; -0.1058 (244.44)	0.0217; -4.2564 (246.82)	0.0154; -7.8307 (245.50)	0.0286; 6.0104 (249.48)
2	0.0110; 8.2566 (243.20)	0.0116; -3.3649 (242.64)	0.0228; -7.1039 (244.42)	0.0176; 6.5870 (244.42)	0.0187; 6.0696 (244.45)
3	0.3426; -662.7031 (232.98)	0.6294; 33.7415 (232.87)	0.7778; 41.7299 (233.56)	0.1799; 343.8345 (233.92)	0.0523; 261.3872 (236.68)
4	0.2520; 217.8791 (232.38)	0.2664; -89.4919 (227.65)	0.3343; -38.5211 (230.58)	0.6362; -251.7578 (231.61)	0.1523; -33.6544 (234.86)
5	0.3599; 326.9878 (229.97)	0.0000; 0.0223 (216.70)	0.0019; 0.0655 (224.94)	0.0607; -24.2117 (228.42)	0.4307; -188.3857 (231.84)
6	0.0022; 1.3444 (221.20)	0.0001; 0.0936 (212.73)	0.0000; -0.0019 (214.41)	0.0043; -1.0000 (218.99)	0.1741; -74.5758 (230.02)
7	0.0017; 0.0836 (214.06)	0.0001; 0.0155 (209.03)	0.0000; 0.0059 (209.10)	0.0028; -0.6446 (217.57)	0.0010; 2.7229 (226.05)
8	0.0004; 0.1009 (208.98)	0.0001; -0.0637 (206.47)	0.0000; 0.0079 (205.43)	0.0009; 0.6594 (214.71)	0.0076; 5.1461 (222.18)
9	0.0560; -23.5988 (198.56)	0.2667; 49.5948 (196.98)	0.2571; 33.5675 (196.93)	0.0223; 12.2132 (200.34)	0.0512; -14.1535 (203.21)
10	0.2873; 50.6335 (197.82)	0.2546; -21.1455 (195.65)	0.2635; -91.2437 (194.82)	0.2699; 124.0221 (197.69)	0.0469; -52.7362 (201.51)
11	0.1333; 55.1054 (195.09)	0.0002; 0.1263 (192.95)	0.0072; -4.7489 (193.42)	0.2059; -317.2571 (196.73)	0.0270; -34.6166 (200.14)
12	0.4244; -435.7930 (193.38)	0.8239; 103.7515 (192.61)	0.7170; 129.2399 (192.34)	0.1430; 272.5791 (193.26)	0.0965; 92.9995 (198.66)
13	0.0261; 12.1090 (192.24)	0.2567; -185.1299 (191.65)	0.0209; 70.0941 (192.07)	0.2441; -35.2608 (192.38)	0.2356; 52.3844 (195.68)
14	0.0304; -54.9450 (191.45)	0.0001; -0.0472 (187.69)	0.5451; -136.6548 (190.64)	0.0467; 120.3107 (192.06)	0.1061; 189.9109 (193.91)
15	0.1004; 34.7870 (191.11)	0.0509; 69.4524 (186.56)	0.0016; -9.2600 (187.57)	0.5561; -283.2886 (191.44)	0.3704; -249.8142 (193.77)
16	0.6589; 371.0754 (190.90)	0.0069; 14.2460 (186.49)	0.0000; -0.0012 (186.03)	0.1434; 119.2461 (190.15)	0.0527; 170.6421 (192.11)
17	0.0192; 14.1303 (188.33)	0.0014; -13.9357 (185.43)	0.0010; 1.3153 (185.10)	0.0746; -7.6937 (189.21)	0.4673; -17.9469 (189.99)
18	0.0003; 0.7192 (187.81)	0.0000; -0.0085 (184.95)	0.0002; -0.0456 (184.80)	0.0038; -14.1960 (187.81)	0.1095; -119.8845 (189.31)
19	0.0098; 22.7733 (185.59)	0.0000; 0.0018 (184.93)	0.0123; 8.3110 (182.94)	0.0010; -0.9023 (186.14)	0.0095; 4.4048 (184.30)
20	0.0078; -9.0992 (181.63)	0.0006; 1.8214 (184.77)	0.0000; -0.0034 (182.24)	0.0005; -1.5802 (184.06)	0.0035; -2.2818 (182.37)
21	0.0380; -4.9165 (181.22)	0.0204; -17.0288 (180.28)	0.0120; -3.7022 (177.38)	0.0263; -30.5522 (178.75)	0.0876; 27.0050 (181.24)
22	0.0777; -7.5245 (179.67)	0.1277; 3.6719 (176.35)	0.1243; 5.1928 (176.31)	0.0376; 19.9104 (178.20)	0.0658; 31.9253 (178.94)
23	0.0543; 5.5887 (176.90)	0.0025; -2.5129 (174.23)	0.0193; -0.7150 (174.61)	0.1461; 47.1439 (177.81)	0.1391; -54.1538 (178.54)
24	0.0006; -1.7276 (174.96)	0.0004; 0.7493 (172.65)	0.0086; 0.4454 (174.46)	0.0139; 1.1131 (176.68)	0.0031; 0.2480 (175.14)
25	0.0008; 1.5093 (173.73)	0.0037; 1.6213 (172.10)	0.0237; 3.2428 (173.34)	0.0109; -6.3136 (174.67)	0.0089; -9.2080 (171.92)
26	0.0435; -0.2759 (172.88)	0.0003; 0.9429 (171.39)	0.0010; 0.4391 (171.50)	0.0016; -1.2856 (171.15)	0.0050; 3.4413 (170.28)
27	0.0073; 2.2530 (172.02)	0.0008; -1.8089 (171.06)	0.0078; -6.6975 (171.31)	0.0391; -2.3801 (170.68)	0.0040; -2.4572 (169.98)
28	0.0061; -4.7347 (170.28)	0.0305; 9.4993 (169.46)	0.0002; 0.1777 (170.65)	0.0068; -1.4459 (169.87)	0.0038; 3.7106 (169.87)
29	0.0173; -4.7895 (169.62)	0.0042; -3.1508 (169.04)	0.0014; 2.8998 (168.87)	0.0015; 1.4549 (169.44)	0.0463; -4.2226 (169.26)
30	0.0008; 1.2187 (169.41)	0.0018; -0.4662 (167.20)	0.0004; 0.0884 (168.45)	0.0004; -1.9850 (168.84)	0.0017; 5.3720 (168.72)
31	0.0003; 1.6673 (168.95)	0.0327; -10.2522 (167.08)	0.0012; -0.7658 (167.93)	0.0008; -0.5113 (168.01)	0.0085; -39.4858 (167.37)
32	0.0516; -8.4306 (166.54)	0.0054; 3.4782 (166.63)	0.0002; 0.8294 (167.05)	0.0009; 1.5951 (167.84)	0.0028; -6.1730 (167.35)
33	0.0144; -0.8448 (165.33)	0.0171; 15.1119 (166.45)	0.0009; -1.2305 (166.28)	0.0161; 12.8378 (166.55)	0.0352; 27.2237 (166.77)
34	0.0129; -2.8574 (165.23)	0.0145; 25.7509 (166.05)	0.0447; 0.1376 (165.80)	0.0465; -13.6600 (166.36)	0.0020; -4.0582 (166.26)
35	0.0023; -2.4599 (164.84)	0.0305; -6.4433 (165.61)	0.0008; 1.1940 (162.90)	0.0746; -16.3697 (165.85)	0.0112; -9.5570 (165.38)
36	0.0003; 0.9813 (164.54)	0.0253; 2.4077 (165.14)	0.0006; 3.6747 (162.58)	0.0045; 1.3102 (165.66)	0.0038; -3.0850 (165.18)
37	0.0013; 1.7580 (164.25)	0.0117; 9.3910 (164.67)	0.0034; -4.9865 (162.46)	0.0053; 2.2901 (165.30)	0.0283; 1.5569 (165.05)
38	0.0014; -2.2175 (164.07)	0.0026; -3.2669 (164.20)	0.0056; 6.0540 (161.91)	0.0018; 3.9523 (164.90)	0.0160; 1.1471 (164.98)
39	0.1128; 5.4080 (162.89)	0.0003; -0.3561 (164.04)	0.0067; -0.4606 (161.88)	0.0072; 1.3373 (164.86)	0.0008; 4.0012 (164.32)
40	0.0003; -1.3186 (162.52)	0.0712; 48.8470 (163.47)	0.0068; -2.3127 (161.81)	0.0039; 0.1350 (162.44)	0.0012; 0.6610 (163.79)
41	0.0006; 1.9644 (162.44)	0.0451; -29.6525 (162.61)	0.0002; 0.0662 (161.66)	0.0123; -12.1185 (162.29)	0.0077; 7.1462 (162.75)
42	0.0086; 4.0336 (161.54)	0.0408; -28.2519 (162.45)	0.0014; -3.1866 (160.64)	0.0110; 10.8937 (162.13)	0.0057; -4.5899 (162.13)
43	0.0087; -2.6949 (161.38)	0.0134; 5.3207 (161.58)	0.0006; 0.1968 (160.54)	0.0339; -6.5732 (161.72)	0.0056; -2.5884 (161.86)
44	0.0007; 1.5633 (160.85)	0.0034; 0.4515 (161.06)	0.0027; 1.1512 (160.47)	0.0017; 0.5375 (161.21)	0.0073; -1.7200 (161.73)
45	0.0007; 0.4155 (160.72)	0.0079; 1.3435 (160.76)	0.0402; -2.2551 (159.04)	0.0030; -0.9770 (160.97)	0.0048; 3.6145 (161.55)
46	0.0003; 0.1935 (160.41)	0.0034; -1.8884 (159.47)	0.0087; -3.9482 (158.42)	0.0006; -1.2957 (160.76)	0.0078; 0.2899 (161.47)
47	0.0002; 0.1866 (160.31)	0.0109; 2.8779 (159.38)	0.0094; 6.7443 (158.26)	0.0007; -0.4659 (160.50)	0.0019; -1.9869 (160.98)
48	0.0255; 9.6723 (159.54)	0.0038; -2.7581 (158.63)	0.0102; -2.1945 (157.76)	0.0041; -0.2081 (159.97)	0.0124; -12.3929 (160.94)
49	0.0006; -2.5434 (159.33)	0.0023; 8.7921 (158.41)	0.0204; 15.2257 (157.73)	0.0053; 0.3679 (159.89)	0.0016; -0.5470 (160.58)
50	0.0136; 5.4344 (158.68)	0.0009; 3.3194 (158.23)	0.0047; 15.3601 (157.41)	0.0022; 3.9685 (159.53)	0.0027; -6.6076 (160.34)

Table S2. (Continued)

j	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$				
	c028	c031	c032	c034	c035
1	0.0215; 2.6760 (246.90)	0.0191; 4.0032 (246.28)	0.0156; 19.0996 (247.56)	0.0178; -1.3135 (244.46)	0.0207; 3.0865 (246.68)
2	0.0185; 4.6136 (244.11)	0.0088; -3.0799 (242.37)	0.0258; -3.5076 (244.65)	0.0109; 2.4540 (242.58)	0.0216; 0.5535 (244.30)
3	0.5709; 19.0233 (233.37)	0.4894; 475.4519 (232.14)	0.0574; -12.1670 (236.32)	0.6300; -86.9151 (232.80)	1.0277; -24.4642 (233.25)
4	0.4978; -22.3281 (230.52)	0.5149; -308.0613 (229.61)	0.0018; 3.5287 (234.06)	0.2407; 85.2932 (227.11)	0.1175; 2.9947 (230.49)
5	0.0178; -1.0612 (226.65)	0.0026; -0.1257 (225.47)	0.7123; -51.5841 (230.50)	0.0003; 0.0041 (216.65)	0.0024; -0.0323 (223.28)
6	0.0000; 0.0026 (216.24)	0.0003; -0.3540 (217.55)	0.0115; 1.6606 (227.82)	0.0002; -0.0160 (213.98)	0.0000; -0.0006 (212.87)
7	0.0001; -0.0374 (209.71)	0.0002; 0.0871 (210.90)	0.0597; -12.9476 (225.15)	0.0000; 0.0375 (213.78)	0.0000; 0.0489 (207.90)
8	0.0000; 0.0034 (206.27)	0.0000; 0.0000 (205.64)	0.0088; 0.6458 (222.46)	0.0001; 0.0764 (203.56)	0.0000; 0.0020 (204.16)
9	0.2500; -30.0606 (196.80)	0.3440; -19.0819 (196.36)	0.0676; -71.4614 (204.56)	0.2327; 35.2949 (196.80)	0.2414; 2.1899 (196.79)
10	0.1487; -4.2813 (195.21)	0.1698; -27.6647 (195.35)	0.0229; -13.2999 (202.60)	0.2066; -48.9604 (195.51)	0.2703; 30.7954 (194.76)
11	0.1201; 2.9068 (194.15)	0.0133; -0.3325 (194.19)	0.0365; 75.9740 (202.07)	0.4851; -12.6113 (192.99)	0.0517; 16.2133 (192.44)
12	0.4893; 72.1231 (192.35)	0.5416; 586.0368 (192.57)	0.1500; 62.5141 (198.47)	0.4765; 69.1118 (192.01)	0.9008; -128.8089 (192.24)
13	0.1021; -218.1569 (192.13)	0.6382; -525.7577 (191.11)	0.0099; 62.5877 (196.01)	0.0001; -0.0284 (190.39)	0.0002; 0.9809 (191.84)
14	0.7098; 146.2394 (190.54)	0.0424; 40.3248 (190.96)	0.0568; 30.4992 (195.84)	0.0004; -0.3696 (189.75)	0.3478; 59.4751 (190.60)
15	0.0037; 16.1345 (187.99)	0.0082; 3.9795 (189.19)	0.1734; -183.6744 (194.43)	0.0001; -0.0955 (188.45)	0.0009; 2.7532 (187.29)
16	0.0000; 0.0218 (187.28)	0.0008; 0.1294 (188.51)	0.7448; 35.2199 (191.38)	0.1319; -95.4568 (187.78)	0.0004; 0.0745 (186.31)
17	0.0017; 0.4100 (185.50)	0.0358; -22.3697 (188.46)	0.2400; 91.9089 (190.27)	0.0103; -1.6740 (187.66)	0.0000; 0.0012 (185.05)
18	0.0012; -0.1282 (183.60)	0.0000; 0.0161 (185.22)	0.0539; -48.1431 (189.52)	0.0072; -9.0871 (183.30)	0.0006; 0.0729 (184.05)
19	0.0000; 0.0217 (183.17)	0.0331; -51.4203 (183.79)	0.0280; -18.6574 (184.39)	0.0149; 11.5133 (182.22)	0.0073; 6.4204 (182.05)
20	0.0022; 3.4462 (182.04)	0.0112; 12.4256 (182.34)	0.0106; 8.8942 (181.60)	0.0000; -0.0296 (181.84)	0.0000; 0.0029 (181.38)
21	0.1482; 19.9402 (176.87)	0.0396; -5.8580 (178.59)	0.0729; 13.4436 (181.38)	0.0035; 13.7752 (178.39)	0.1289; 1.9649 (176.32)
22	0.0040; -14.6917 (176.52)	0.0496; 26.7929 (177.75)	0.1100; 39.9649 (178.09)	0.0585; 2.6940 (177.00)	0.0003; 0.1565 (175.26)
23	0.0026; 1.4416 (176.06)	0.0251; -8.2377 (177.09)	0.0039; -0.4554 (177.11)	0.0627; -8.7099 (175.74)	0.0062; 0.9869 (174.34)
24	0.0008; 0.2392 (174.78)	0.0056; 1.6961 (173.52)	0.0999; -51.5148 (176.37)	0.0124; 8.2981 (174.89)	0.0005; -0.2414 (174.14)
25	0.0452; -5.4059 (172.55)	0.0046; 0.4901 (172.94)	0.0028; -3.2407 (173.83)	0.0008; -0.3322 (171.96)	0.0554; -1.2837 (173.05)
26	0.0019; -1.5531 (171.35)	0.0317; -0.3541 (172.44)	0.0001; -0.1043 (173.39)	0.0008; -0.0083 (170.98)	0.0016; -1.2586 (171.65)
27	0.0003; 0.2938 (169.51)	0.0009; -0.8658 (170.52)	0.0017; 0.1006 (172.02)	0.0383; -4.3176 (170.23)	0.0007; 1.2866 (170.64)
28	0.0012; 2.2772 (169.09)	0.0025; -1.6165 (170.37)	0.0002; 0.1987 (170.25)	0.0027; -1.6866 (169.25)	0.0008; 0.3562 (169.89)
29	0.0009; -1.0715 (168.88)	0.0060; 1.9628 (168.91)	0.0599; 19.1295 (169.56)	0.0129; 5.1177 (169.18)	0.0005; -0.5789 (168.65)
30	0.0014; 1.1326 (168.25)	0.0011; 0.4972 (168.00)	0.0002; 1.7722 (168.96)	0.0012; -0.8277 (168.08)	0.0016; -0.1082 (167.79)
31	0.0003; 0.1334 (167.62)	0.0007; -0.4955 (167.65)	0.0276; -4.8679 (168.77)	0.0724; -29.8985 (167.59)	0.0006; 0.3183 (167.65)
32	0.0001; -0.3144 (166.22)	0.0163; 0.4777 (166.04)	0.0213; -18.0777 (167.99)	0.0005; 3.0449 (166.84)	0.0015; 1.1039 (167.45)
33	0.0464; -0.6300 (165.93)	0.0001; -1.6150 (165.28)	0.0142; -5.2604 (167.72)	0.0042; -8.2568 (166.51)	0.0003; 0.3709 (166.28)
34	0.0006; -0.9208 (165.77)	0.0353; -20.7702 (164.79)	0.0263; 1.7581 (167.39)	0.0368; -0.4074 (165.73)	0.0007; -2.5016 (166.12)
35	0.0002; 0.5713 (163.51)	0.0074; -0.7412 (164.57)	0.0130; -9.6690 (166.59)	0.0356; 33.0864 (165.33)	0.0463; 2.0519 (165.68)
36	0.0003; -0.1129 (162.60)	0.0219; 8.8055 (164.30)	0.0026; 0.9909 (165.32)	0.0601; -62.7323 (165.28)	0.0000; -0.0458 (164.71)
37	0.0004; 0.3491 (162.10)	0.0084; -0.7006 (164.27)	0.0062; -1.7387 (164.65)	0.0154; 11.2895 (164.78)	0.0025; 0.0638 (161.70)
38	0.0017; 0.7830 (161.91)	0.0515; 0.0815 (163.04)	0.0002; 1.2084 (164.28)	0.0027; 1.3973 (164.32)	0.0019; 1.7649 (161.68)
39	0.0099; 0.1905 (161.72)	0.0006; -1.5400 (162.30)	0.0082; 1.4832 (163.97)	0.0040; -1.5569 (164.10)	0.0010; -4.5284 (161.48)
40	0.0001; -0.1441 (161.56)	0.0583; -1.9651 (162.19)	0.0071; 5.6442 (163.63)	0.0134; 1.1595 (163.40)	0.0061; 4.6711 (161.47)
41	0.0029; -2.4438 (161.52)	0.0016; 2.4532 (162.12)	0.0018; -3.2980 (163.23)	0.0112; -18.8180 (163.00)	0.0008; 1.0339 (161.02)
42	0.0005; -1.8489 (160.77)	0.0321; -10.1735 (161.23)	0.0139; -12.0373 (162.81)	0.0065; -11.3516 (162.06)	0.0010; -0.1211 (160.96)
43	0.0032; -0.3756 (160.46)	0.0069; -3.0202 (160.86)	0.0091; 10.4478 (162.25)	0.0036; 10.5470 (162.00)	0.0001; -0.0808 (160.79)
44	0.0015; -0.9823 (160.04)	0.0001; 0.4611 (160.52)	0.0008; -1.9413 (161.71)	0.0055; -0.1640 (161.77)	0.0004; 0.0753 (160.35)
45	0.0380; 2.0198 (159.65)	0.0014; 0.1951 (160.49)	0.0111; 3.6798 (160.80)	0.0009; 0.8073 (161.18)	0.0003; 0.3349 (159.85)
46	0.0023; -0.3385 (159.47)	0.0153; 3.0611 (160.04)	0.0113; -9.4322 (160.72)	0.0084; 9.4364 (160.25)	0.0419; -0.7810 (158.63)
47	0.0014; 2.4209 (159.27)	0.0182; 4.0575 (159.76)	0.0439; -12.2646 (160.41)	0.0040; -2.1893 (160.00)	0.0041; -0.1053 (158.30)
48	0.0096; -15.7664 (158.54)	0.0155; -4.1569 (158.58)	0.0456; 1.1777 (159.80)	0.0020; -5.2513 (159.34)	0.0040; 7.2892 (158.29)
49	0.0038; -1.4557 (158.44)	0.0027; -1.9857 (158.44)	0.0226; -40.1029 (159.57)	0.0008; 1.0422 (159.11)	0.0088; 3.0964 (158.11)
50	0.0067; -0.4721 (158.22)	0.0034; 0.1602 (158.33)	0.0028; -0.0535 (159.51)	0.0218; -9.7771 (158.93)	0.0496; 1.3829 (157.31)

Table S2. (Continued)

j	c036	c042	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$	c053	c054
1	0.0200; 1.0360 (245.78)	0.0175; -4.7066 (246.29)	0.0174; 0.1860 (246.11)	0.0258; 4.8419 (249.20)	0.0119; 3.0691 (244.67)
2	0.0223; -2.1731 (244.55)	0.0090; 8.3328 (242.72)	0.0071; 4.5444 (241.88)	0.0170; 5.6243 (244.25)	0.0162; -10.0750 (243.86)
3	1.0669; -51.7448 (233.68)	0.3379; -729.2010 (232.54)	0.8123; -459.3612 (231.85)	0.0698; 298.4370 (236.17)	0.7377; -78.4429 (232.29)
4	0.1011; 22.0618 (230.28)	0.2870; 295.0841 (231.99)	0.2095; 383.8614 (229.84)	0.0407; -11.8536 (234.93)	0.2056; 97.2578 (228.76)
5	0.0042; -0.3152 (221.54)	0.3223; 317.0704 (229.66)	0.0062; -2.6130 (224.10)	0.6440; -308.2329 (232.09)	0.0002; 0.1348 (218.67)
6	0.0001; -0.0095 (211.36)	0.0024; 1.5325 (221.11)	0.0000; -0.0238 (214.73)	0.0640; -18.0874 (228.92)	0.0002; 0.1465 (211.91)
7	0.0001; 0.0990 (210.51)	0.0017; -0.0878 (213.47)	0.0000; -0.0440 (207.94)	0.0063; -5.3251 (224.93)	0.0000; -0.0074 (209.19)
8	0.0001; -0.0404 (205.30)	0.0003; 0.1164 (208.37)	0.0002; 0.1400 (202.64)	0.0043; 2.5295 (222.38)	0.0000; 0.0057 (208.24)
9	0.2465; 2.3138 (196.89)	0.0664; -27.7530 (198.21)	0.2873; 41.3785 (196.74)	0.0688; -16.7456 (202.39)	0.2226; 19.1186 (196.70)
10	0.2693; 3.0168 (195.02)	0.2807; 55.5213 (197.55)	0.2405; 28.8172 (195.17)	0.0273; 8.7285 (201.39)	0.2324; -85.8818 (195.67)
11	1.0377; -55.1288 (192.44)	0.1350; 69.4818 (195.04)	0.0014; -1.4414 (193.72)	0.0587; -45.2434 (199.76)	0.7958; 6.5049 (192.81)
12	0.0104; 0.0589 (192.12)	0.4185; -453.9741 (193.30)	0.8536; -245.1513 (192.70)	0.0818; -13.7192 (198.91)	0.0189; 0.3798 (191.98)
13	0.2145; 46.9335 (190.78)	0.0245; 13.9881 (192.29)	0.0075; 1.9650 (192.04)	0.2327; 97.0879 (195.95)	0.2421; 53.1835 (191.88)
14	0.0381; -10.9682 (190.45)	0.0432; -65.3701 (191.38)	0.3499; 241.4189 (190.94)	0.3030; -127.1270 (193.99)	0.0710; -90.8175 (187.49)
15	0.0022; 2.6031 (186.38)	0.2385; 120.0884 (191.03)	0.0001; -0.1865 (187.13)	0.1933; 121.4836 (193.64)	0.0002; 1.1521 (187.33)
16	0.0107; -6.9724 (185.91)	0.5144; 295.6824 (190.85)	0.0000; -0.0313 (186.87)	0.0246; 101.4053 (192.11)	0.0131; 59.2855 (187.28)
17	0.0009; 0.3717 (185.74)	0.0237; 16.9612 (188.48)	0.0127; -18.1532 (186.70)	0.5141; -21.8935 (189.76)	0.0144; -31.0275 (185.88)
18	0.0002; -3.8907 (185.58)	0.0003; 0.6381 (187.73)	0.0235; 43.5297 (184.40)	0.0732; -92.2258 (188.87)	0.0000; 0.0060 (185.38)
19	0.0000; 0.0059 (184.84)	0.0128; 27.6845 (185.64)	0.0000; 0.0045 (182.98)	0.0137; 2.2962 (184.32)	0.0000; 0.0000 (184.15)
20	0.0000; 0.0023 (182.01)	0.0025; -5.7332 (182.39)	0.0664; -43.5931 (180.17)	0.0053; -0.3359 (182.84)	0.0042; 4.7767 (180.59)
21	0.0001; 0.4566 (177.66)	0.0807; -17.3372 (180.61)	0.0097; -3.2884 (178.81)	0.1468; 33.4229 (180.62)	0.0151; 20.9166 (179.18)
22	0.1266; 7.4363 (176.26)	0.0292; -2.5595 (179.70)	0.0016; 2.5359 (178.14)	0.0844; -26.7762 (179.23)	0.1326; 9.6612 (177.44)
23	0.0579; -4.0535 (173.92)	0.0550; 5.1507 (176.99)	0.0323; -1.3295 (175.51)	0.0525; -5.6422 (177.55)	0.0097; -1.8006 (175.19)
24	0.0016; 2.8340 (173.16)	0.0004; -0.8603 (174.47)	0.0427; -1.8048 (174.02)	0.0032; 0.2308 (175.00)	0.0006; 0.2651 (173.83)
25	0.0008; -0.1197 (172.34)	0.0004; 1.1388 (173.77)	0.0009; -0.5593 (173.43)	0.0109; -9.0212 (173.27)	0.0074; -1.1661 (172.67)
26	0.0063; -1.8531 (172.03)	0.0433; -1.9506 (172.65)	0.0043; 0.4346 (171.69)	0.0049; 0.7695 (170.92)	0.0005; -1.3330 (170.13)
27	0.0006; 3.2509 (171.12)	0.0071; 2.7715 (171.85)	0.0016; -1.0963 (170.65)	0.0062; 2.1352 (169.84)	0.0014; 0.7620 (168.80)
28	0.0030; -3.9851 (170.93)	0.0052; -10.2901 (170.98)	0.0012; -0.1989 (170.24)	0.0282; 9.2763 (169.54)	0.0016; -0.7470 (168.76)
29	0.0006; 0.1557 (167.93)	0.0013; 6.1120 (170.66)	0.0038; -0.9333 (169.99)	0.0102; -11.2150 (169.45)	0.0115; -10.5761 (168.23)
30	0.0013; -0.5905 (167.30)	0.0136; -3.7859 (170.00)	0.0048; -3.3605 (169.71)	0.0056; 1.0922 (168.99)	0.0019; 1.8470 (168.15)
31	0.0019; 0.2295 (166.91)	0.0005; 1.7820 (168.25)	0.0015; -3.7182 (168.74)	0.0011; 3.7023 (168.36)	0.0016; -0.2411 (167.76)
32	0.0013; -0.4982 (166.72)	0.0004; 0.8711 (166.62)	0.0844; 16.8937 (166.17)	0.0028; -1.0188 (167.42)	0.0086; 5.3191 (166.81)
33	0.0357; -2.2846 (165.56)	0.0590; -3.6468 (166.53)	0.0010; -1.6142 (165.63)	0.0136; -35.8286 (167.18)	0.0478; 0.6228 (166.20)
34	0.0008; 1.8218 (164.67)	0.0110; 2.6041 (165.41)	0.1079; -5.9537 (163.70)	0.0353; 24.1870 (166.54)	0.0017; -0.2344 (166.09)
35	0.0054; 7.7794 (164.45)	0.0206; -5.7954 (165.32)	0.0182; 4.6178 (163.46)	0.0043; -1.9509 (165.86)	0.0067; -8.1691 (165.75)
36	0.0002; -0.2084 (163.69)	0.0036; -1.3088 (164.78)	0.0377; -9.4953 (163.39)	0.0186; -12.9067 (165.42)	0.0001; 0.1058 (165.25)
37	0.0150; -4.8471 (163.17)	0.0004; 2.0308 (164.26)	0.0015; 0.9135 (163.20)	0.0036; 3.5402 (165.11)	0.0220; 22.6532 (164.84)
38	0.0006; 1.3409 (162.87)	0.0015; -3.4631 (164.21)	0.0011; -4.0673 (163.05)	0.0374; -0.0900 (164.99)	0.0440; -21.7916 (164.56)
39	0.0002; 0.1433 (162.43)	0.1162; -10.5180 (163.24)	0.0006; -0.6937 (162.13)	0.0001; 0.0003 (164.37)	0.0004; 1.2826 (163.69)
40	0.0005; -1.1053 (162.12)	0.0023; 5.2927 (162.89)	0.0010; 1.4582 (162.04)	0.0024; 2.0065 (163.60)	0.0720; -24.8857 (163.06)
41	0.0007; -0.5896 (161.65)	0.0007; 2.2319 (162.53)	0.0001; 0.0118 (161.18)	0.0029; -0.8892 (162.88)	0.0212; 3.8320 (162.23)
42	0.0021; 6.0240 (161.29)	0.0001; 0.0491 (162.47)	0.0015; 5.7767 (160.97)	0.0045; 1.9383 (162.48)	0.0046; 3.3230 (161.89)
43	0.0102; 0.6536 (160.77)	0.0044; -0.4088 (161.90)	0.0001; 0.0916 (160.73)	0.0190; 4.8975 (161.72)	0.0003; -0.4878 (161.72)
44	0.0186; 0.5691 (160.26)	0.0113; 10.7542 (161.38)	0.0073; 1.6278 (160.69)	0.0203; 1.0031 (161.63)	0.0017; 1.1191 (161.03)
45	0.0038; -1.0964 (159.74)	0.0020; 0.8727 (161.07)	0.0078; -15.4154 (160.29)	0.0029; -2.3192 (161.52)	0.0090; -3.3732 (160.42)
46	0.0017; -2.1157 (159.68)	0.0002; 0.0373 (160.89)	0.0007; -0.0697 (159.93)	0.0030; -4.7427 (160.99)	0.0001; -0.9401 (160.33)
47	0.0043; 0.4720 (159.61)	0.0001; 0.2393 (160.70)	0.0214; 11.0807 (159.60)	0.0040; 3.2215 (160.71)	0.0161; 9.1488 (160.06)
48	0.0047; -1.7966 (158.13)	0.0165; 3.6300 (159.79)	0.0031; -2.0862 (159.09)	0.0084; -12.1830 (160.61)	0.0252; -6.2429 (159.51)
49	0.0126; 17.4808 (157.70)	0.0027; 2.5238 (159.45)	0.0046; 2.9059 (158.28)	0.0076; 8.7803 (160.56)	0.0109; -12.2931 (158.93)
50	0.0470; 10.3650 (157.31)	0.0108; 4.6830 (158.73)	0.0063; 3.6089 (158.15)	0.0141; -44.3920 (160.08)	0.0213; -8.2448 (158.47)

Table S2. (Continued)

<i>j</i>	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$				
	c055	c068	c071	c072	c074
1	0.0174; -8.4065 (244.50)	0.0179; -5.1432 (245.72)	0.0187; 11.8821 (246.29)	0.0159; -4.7794 (244.59)	0.0254; -22.4999 (244.35)
2	0.0066; -0.7560 (238.53)	0.0193; -9.1223 (244.36)	0.0055; 5.7231 (243.77)	0.0146; 4.7177 (244.15)	0.0090; 22.5895 (244.31)
3	0.5308; 58.7206 (232.78)	0.5042; 382.4101 (233.08)	0.1109; -22.8970 (235.73)	0.4291; 347.0174 (233.15)	0.6630; -113.3326 (232.87)
4	0.0044; 8.2514 (223.45)	0.4266; -309.3130 (230.74)	0.0636; -246.2463 (233.69)	0.4930; -182.7646 (229.82)	0.2638; 17.2986 (228.90)
5	0.1800; -93.8057 (222.65)	0.0047; 2.7625 (224.88)	0.3268; 170.0835 (230.73)	0.0019; -0.2128 (223.29)	0.0008; 0.0118 (218.90)
6	0.0018; 1.3692 (219.29)	0.0000; -0.0556 (213.97)	0.1820; -9.6744 (225.73)	0.0000; 0.0221 (214.44)	0.0001; 0.0179 (211.17)
7	0.0031; -1.9475 (215.46)	0.0001; 0.2143 (213.62)	0.0279; -7.0493 (224.49)	0.0000; 0.0131 (212.92)	0.0000; -0.0153 (208.62)
8	0.0002; -0.0105 (204.91)	0.0000; -0.0352 (210.38)	0.0017; 2.9433 (223.44)	0.0002; -0.0620 (210.50)	0.0000; -0.0008 (208.43)
9	0.1814; 26.5677 (197.22)	0.2768; 55.0907 (196.87)	0.0102; 7.0023 (205.63)	0.2261; -92.8013 (197.42)	0.2325; 111.6579 (196.98)
10	0.0414; -78.8459 (197.10)	0.0813; -59.9521 (196.78)	0.0057; 5.3105 (201.23)	0.0445; 0.7776 (196.50)	0.3112; -32.0272 (195.89)
11	0.2012; 25.8979 (195.33)	0.2377; -78.9844 (195.82)	0.0314; 42.0248 (200.25)	0.2934; -22.4741 (195.54)	0.0378; -14.8158 (193.40)
12	0.0220; -7.1526 (194.74)	0.4943; 554.9695 (192.40)	0.0062; 4.8636 (199.09)	0.4207; 407.0296 (192.74)	0.8115; -323.7137 (192.34)
13	0.2690; 269.4237 (193.44)	0.6167; -516.5443 (191.09)	0.0229; -82.5608 (197.52)	0.7691; -281.8967 (191.05)	0.2443; 238.7632 (191.52)
14	0.4042; -282.1713 (192.64)	0.0037; -5.5134 (188.80)	0.3383; 508.9361 (196.17)	0.0024; 0.3945 (189.11)	0.0035; 13.8987 (187.81)
15	0.1591; -35.1275 (191.61)	0.0001; 0.0730 (188.21)	0.1697; -606.8669 (194.54)	0.0000; -0.0361 (188.50)	0.0028; -12.4620 (187.04)
16	0.0674; 24.3684 (189.57)	0.0011; -0.3414 (188.03)	0.5857; 286.1456 (191.31)	0.0192; -19.9531 (188.02)	0.0005; -0.1587 (186.51)
17	0.0035; 6.3600 (188.11)	0.0003; 4.0195 (187.61)	0.1981; -42.8482 (190.36)	0.0043; -18.3478 (187.16)	0.0000; -0.0120 (185.17)
18	0.0240; -4.9464 (188.02)	0.0004; -0.1207 (186.67)	0.0013; 12.7341 (188.07)	0.0007; -0.1890 (186.16)	0.0003; 0.0235 (184.60)
19	0.0032; 19.9651 (187.61)	0.0168; 8.0978 (185.70)	0.0016; -1.9256 (184.80)	0.0063; 28.1189 (184.72)	0.0007; 2.0577 (183.66)
20	0.0084; 7.9830 (181.59)	0.0006; 0.2646 (185.66)	0.0837; 18.6538 (183.82)	0.0036; -2.5190 (184.40)	0.0231; 12.6786 (182.44)
21	0.0082; 1.8357 (180.54)	0.0165; 6.2447 (177.93)	0.0493; -51.7477 (183.79)	0.0103; 8.1600 (180.94)	0.0067; -7.4420 (177.82)
22	0.0098; 5.5154 (180.45)	0.0092; 10.0867 (176.37)	0.1689; -67.7573 (180.38)	0.1260; 5.9565 (177.29)	0.0110; 1.9833 (177.16)
23	0.1620; 36.5675 (176.78)	0.1531; 8.6756 (176.35)	0.0159; -13.6835 (176.38)	0.0265; 9.8904 (176.56)	0.1190; -3.5715 (176.31)
24	0.1039; -5.8305 (174.83)	0.0022; 0.4201 (174.48)	0.0311; 29.8957 (174.63)	0.0069; -2.7485 (175.42)	0.0064; -4.4621 (175.34)
25	0.0017; -4.4464 (174.14)	0.0014; -1.2922 (171.98)	0.0005; -1.7572 (173.77)	0.0023; 0.6027 (173.96)	0.0001; -0.3377 (172.15)
26	0.1628; 44.0865 (173.75)	0.0003; -1.2902 (171.10)	0.0031; -3.2115 (172.55)	0.0062; -0.8210 (173.40)	0.0094; 7.1156 (171.23)
27	0.0305; -26.3920 (170.98)	0.0005; -0.9998 (170.77)	0.0028; -5.6644 (171.71)	0.0002; 0.8962 (170.57)	0.0399; 7.2949 (170.99)
28	0.0059; 10.6780 (170.63)	0.0248; -5.8209 (169.73)	0.0413; -13.8573 (170.59)	0.0099; -2.0875 (168.13)	0.0022; 3.5276 (169.76)
29	0.0003; -1.5907 (170.05)	0.0001; 0.1802 (168.88)	0.0084; 12.9963 (170.40)	0.0297; -5.8418 (167.85)	0.0011; -1.3583 (168.93)
30	0.0011; -0.2180 (169.66)	0.0002; 0.4691 (168.03)	0.0068; -1.1353 (168.68)	0.0045; -0.9159 (167.04)	0.0063; 2.6181 (168.31)
31	0.0049; 9.5455 (169.27)	0.0012; -0.1014 (167.95)	0.0020; 3.1173 (167.92)	0.0029; -0.4965 (166.63)	0.0015; -1.3894 (167.70)
32	0.0126; 18.3984 (168.97)	0.0008; 0.2801 (167.69)	0.0151; 3.5629 (167.63)	0.0014; 3.6572 (166.32)	0.0545; 10.4485 (166.96)
33	0.0018; 1.0155 (168.21)	0.0153; -9.0998 (166.88)	0.0035; 3.9152 (167.24)	0.0038; -4.3130 (165.91)	0.0308; 14.4088 (166.85)
34	0.0427; 12.5562 (167.76)	0.0050; -3.0697 (166.25)	0.0006; -2.2482 (166.30)	0.0006; 1.0218 (165.62)	0.0082; 4.0771 (166.63)
35	0.0345; 13.0234 (167.66)	0.0414; -0.8516 (166.05)	0.0197; 1.9557 (166.18)	0.0091; 1.1028 (165.20)	0.0040; -0.8840 (166.49)
36	0.0158; -3.4255 (166.91)	0.0026; -5.8415 (165.58)	0.0010; 2.1576 (165.66)	0.0129; -0.9723 (165.06)	0.0397; -9.0702 (165.92)
37	0.0290; 20.7840 (166.73)	0.0537; 17.1297 (165.20)	0.0026; -1.7473 (165.44)	0.0168; -1.8104 (164.80)	0.0212; 6.2248 (165.81)
38	0.0059; 6.5510 (165.72)	0.0743; -4.0905 (164.61)	0.0088; 2.3892 (165.01)	0.0189; -4.2785 (164.74)	0.0014; -4.9920 (165.36)
39	0.0032; 1.9357 (165.62)	0.0045; 3.6067 (163.52)	0.0068; 9.1356 (164.12)	0.0148; 8.6151 (164.48)	0.0533; 12.5953 (164.93)
40	0.0133; 3.2109 (165.17)	0.0021; -3.2550 (162.36)	0.0679; 17.3987 (163.84)	0.0527; -12.0106 (163.97)	0.0026; 3.2669 (162.59)
41	0.0222; -23.1651 (164.28)	0.0015; 7.7889 (162.34)	0.0020; -2.7657 (163.26)	0.0004; 2.4173 (163.38)	0.0132; 2.0370 (161.76)
42	0.0062; -1.7530 (164.26)	0.0043; 0.8649 (161.72)	0.0373; 21.1673 (162.92)	0.0477; -11.4478 (162.40)	0.0038; -0.5591 (161.68)
43	0.0051; 4.5691 (163.63)	0.0002; -0.1165 (160.95)	0.0403; -12.6494 (162.45)	0.0457; -8.0797 (160.74)	0.0012; 1.9505 (161.31)
44	0.0006; 0.4904 (162.71)	0.0123; -3.0651 (160.82)	0.0159; -40.6931 (161.65)	0.0131; 5.9322 (160.36)	0.0117; 21.3015 (160.93)
45	0.0057; -5.7102 (162.64)	0.0047; -1.2527 (160.73)	0.0040; 8.7744 (161.41)	0.0023; -0.5773 (160.30)	0.0331; -19.7965 (160.62)
46	0.0023; -5.7239 (162.61)	0.0060; -3.7564 (160.34)	0.0005; -1.6769 (161.01)	0.0021; -4.6098 (160.09)	0.0006; 0.1006 (160.10)
47	0.0011; 3.0134 (162.16)	0.0013; 2.2193 (160.21)	0.0046; 1.7710 (160.79)	0.0028; -1.0951 (159.49)	0.0009; -0.5102 (159.81)
48	0.0028; -0.7578 (161.41)	0.0151; -4.5906 (159.16)	0.0103; 4.3557 (160.56)	0.0018; -2.3821 (158.65)	0.0746; 15.5983 (159.03)
49	0.0001; 0.0079 (161.17)	0.0926; -2.6917 (158.17)	0.0009; -2.5032 (160.32)	0.0271; -40.5822 (158.19)	0.0028; 6.7851 (158.78)
50	0.0000; -0.1881 (160.83)	0.0129; 1.1114 (157.94)	0.0008; -4.0627 (160.12)	0.0813; -4.1490 (157.63)	0.0035; -4.6793 (158.43)

Table S2. (Continued)

j	c075	c078	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$	c083	c095	c096
1	0.0177; 3.1569 (245.70)	0.0137; -8.0082 (244.51)	0.0046; 29.1834 (247.50)	0.0214; 2.1627 (245.94)	0.0180; 3.1584 (246.19)	
2	0.0071; 3.6038 (241.88)	0.0162; 4.6278 (244.38)	0.0022; 9.6689 (247.36)	0.0227; 10.5798 (244.69)	0.0174; 4.1739 (244.49)	
3	0.7919; -40.6632 (231.88)	0.6760; -123.3777 (232.44)	0.1878; -0.8123 (241.30)	0.8147; 301.2981 (233.81)	0.1480; -260.4588 (233.74)	
4	0.2750; -21.9141 (229.28)	0.2431; 53.5905 (229.90)	0.1341; -63.2676 (232.76)	0.3105; -222.9481 (230.45)	0.0577; -3.7995 (231.80)	
5	0.0002; -0.1394 (221.12)	0.0003; -0.0273 (217.49)	0.2019; 88.7162 (230.89)	0.0012; 0.1308 (223.07)	0.6398; 149.5846 (231.25)	
6	0.0000; 0.0103 (212.54)	0.0001; 0.0082 (213.34)	0.0117; 3.2216 (226.07)	0.0000; -0.0141 (212.91)	0.0049; -0.3639 (220.58)	
7	0.0000; -0.0101 (208.18)	0.0000; -0.0055 (210.01)	0.0518; -15.5929 (224.35)	0.0000; -0.0588 (212.03)	0.0023; 2.2182 (218.56)	
8	0.0000; 0.0109 (202.47)	0.0000; -0.0044 (207.62)	0.1515; -18.1848 (218.54)	0.0001; 0.0089 (206.74)	0.0041; -1.4982 (215.89)	
9	0.2489; -9.0238 (196.27)	0.2423; 672.2908 (196.56)	0.0286; -60.5594 (209.18)	0.2506; -67.4173 (197.00)	0.0051; -13.1487 (203.11)	
10	0.2418; 135.1543 (195.43)	0.2428; -649.5407 (196.45)	0.2158; -205.1395 (203.54)	0.2717; 42.1536 (195.04)	0.3297; 57.1625 (197.92)	
11	0.8713; -211.0169 (192.43)	0.4189; -171.6860 (192.48)	0.1057; -72.0102 (200.91)	0.0002; -1.1999 (192.96)	0.2087; -153.8827 (196.76)	
12	0.0002; 0.0049 (191.99)	0.3772; -134.8335 (192.15)	0.0224; 10.6794 (198.07)	0.7694; 167.7033 (192.61)	0.0865; 46.7228 (194.42)	
13	0.2765; 16.6121 (191.10)	0.3088; 273.9352 (191.62)	0.2425; 443.9959 (195.87)	0.1295; 41.1809 (191.06)	0.2620; -79.8422 (193.34)	
14	0.1302; 62.7495 (190.89)	0.0016; -2.7219 (188.25)	0.0825; 261.4369 (194.64)	0.3799; -165.4439 (190.77)	0.0261; -135.8311 (191.89)	
15	0.0175; 6.4864 (187.17)	0.0005; 0.1944 (187.92)	0.1166; -206.7613 (193.97)	0.0001; -0.1026 (186.69)	0.5193; 294.4009 (191.38)	
16	0.0000; -0.1318 (187.11)	0.0015; 10.2689 (187.19)	0.0551; -234.3197 (190.35)	0.0086; -18.7434 (186.17)	0.0616; 60.7650 (190.06)	
17	0.0000; -0.0042 (185.75)	0.0002; 0.0185 (185.43)	0.0243; -14.0617 (188.72)	0.0012; 12.0476 (185.97)	0.2075; -77.0381 (189.70)	
18	0.0011; -3.0137 (185.00)	0.0010; -0.0206 (184.83)	0.3547; 80.3001 (188.30)	0.0000; -0.0413 (185.79)	0.0013; 2.6608 (188.41)	
19	0.0000; 0.0026 (182.71)	0.0000; -0.0006 (184.60)	0.1839; -65.0628 (187.02)	0.0167; -7.0010 (184.51)	0.0038; -11.5154 (183.93)	
20	0.0386; 59.2239 (182.12)	0.0154; 8.9768 (181.37)	0.0225; -0.1534 (184.13)	0.0000; -0.0028 (182.98)	0.0044; 6.8281 (183.60)	
21	0.0489; -46.7300 (178.73)	0.0087; -6.9764 (177.63)	0.0327; -24.6580 (182.25)	0.0189; 2.7356 (177.05)	0.0059; -4.0715 (180.31)	
22	0.0081; 0.0638 (177.69)	0.0047; -35.6789 (176.34)	0.1201; 74.4838 (182.07)	0.1315; -3.1135 (176.69)	0.1592; 7.9524 (177.69)	
23	0.0004; 0.1818 (175.92)	0.1280; 38.3355 (176.21)	0.0046; 6.6573 (178.05)	0.0003; 0.6034 (174.00)	0.0281; -3.9395 (176.46)	
24	0.0752; 5.0412 (174.06)	0.0422; 9.4507 (171.76)	0.0648; 1.6465 (176.94)	0.0542; -1.6050 (173.11)	0.0109; -13.5926 (174.84)	
25	0.0008; 0.9061 (172.15)	0.0012; 3.5450 (171.54)	0.0325; -11.2374 (175.85)	0.0006; 0.1445 (172.70)	0.0019; -1.5848 (172.31)	
26	0.0046; -4.7796 (172.12)	0.0025; 3.9784 (170.95)	0.0023; 1.9775 (174.13)	0.0008; -0.6510 (172.04)	0.0015; -0.4922 (171.73)	
27	0.0006; 1.2876 (171.29)	0.0027; -0.7840 (170.73)	0.0126; -17.7138 (171.80)	0.0010; 1.2678 (171.65)	0.0267; -0.6978 (170.89)	
28	0.0049; -1.8768 (169.32)	0.0154; 4.8803 (168.78)	0.0030; -8.2616 (171.20)	0.0001; 0.0209 (171.01)	0.0102; 7.9402 (169.64)	
29	0.0006; 0.5130 (167.79)	0.0174; -5.6239 (168.57)	0.0034; 0.5721 (170.28)	0.0001; 0.0544 (168.52)	0.0009; -1.4515 (168.49)	
30	0.0529; 3.6408 (166.80)	0.0032; 5.9311 (168.54)	0.0015; -1.9770 (169.83)	0.0008; 0.7227 (167.68)	0.0016; -0.7068 (168.21)	
31	0.0041; 2.2810 (165.91)	0.0013; 0.1928 (168.12)	0.0009; 3.7235 (169.13)	0.0031; 2.6425 (167.53)	0.0016; 3.2438 (167.34)	
32	0.0082; 8.3226 (165.05)	0.0621; 8.5130 (167.38)	0.0040; 2.6066 (168.48)	0.0200; 0.6808 (166.43)	0.0008; -1.9742 (167.23)	
33	0.0241; -10.2127 (165.03)	0.0315; 22.2585 (167.05)	0.0491; -3.6832 (168.18)	0.0142; -2.2509 (166.03)	0.0602; 11.3499 (166.74)	
34	0.0019; 1.0352 (164.23)	0.0013; 0.7975 (166.32)	0.0099; 19.0717 (167.92)	0.0009; 0.5635 (164.29)	0.0013; 0.5206 (166.04)	
35	0.0024; -2.2710 (163.78)	0.0004; 0.9085 (166.19)	0.0045; 6.5823 (167.21)	0.0018; 1.6120 (164.23)	0.0586; -21.5835 (165.30)	
36	0.0086; 3.1891 (163.37)	0.0012; 1.1241 (165.50)	0.0075; -2.0656 (166.37)	0.0073; -7.1866 (163.77)	0.0637; 10.1072 (165.03)	
37	0.1344; -9.6293 (163.16)	0.0392; -3.7441 (165.37)	0.0183; -3.3141 (165.51)	0.0010; 0.7914 (163.08)	0.0036; -1.6519 (164.35)	
38	0.0004; -0.2460 (162.37)	0.0139; 14.4280 (165.25)	0.0191; -30.7926 (165.35)	0.0035; 0.4006 (162.61)	0.0038; 0.4973 (164.26)	
39	0.0003; 0.2670 (162.15)	0.0077; -15.3489 (164.16)	0.0078; -12.8841 (164.82)	0.0055; 7.2325 (162.48)	0.0045; -7.5979 (163.18)	
40	0.0003; 0.7082 (162.08)	0.0090; -3.3330 (161.99)	0.0354; -26.9388 (164.56)	0.0053; 0.9318 (162.24)	0.0037; 14.7616 (162.95)	
41	0.0139; 2.9556 (160.94)	0.0092; -7.5872 (161.45)	0.0222; 3.6943 (164.04)	0.0028; -4.3818 (161.95)	0.0003; 0.6023 (162.83)	
42	0.0061; 5.7338 (160.61)	0.0017; 2.0660 (161.43)	0.0212; 6.1796 (163.87)	0.0040; 1.9171 (161.26)	0.0305; 2.0974 (162.38)	
43	0.0017; -1.3263 (160.49)	0.0396; 8.5848 (161.17)	0.0078; -4.0420 (163.45)	0.0035; 2.4534 (160.98)	0.0118; 1.8062 (162.07)	
44	0.0126; -3.3580 (160.41)	0.0003; -0.3125 (160.55)	0.0299; -6.0522 (163.15)	0.0140; -11.8463 (160.90)	0.0011; 0.7763 (161.79)	
45	0.0245; -1.9690 (160.13)	0.0313; 0.0767 (160.03)	0.0120; -9.0530 (162.64)	0.0032; 1.0610 (160.57)	0.0035; 6.2848 (161.23)	
46	0.0005; -1.0518 (160.02)	0.0031; -1.2152 (159.92)	0.0121; -6.2909 (162.46)	0.0064; -2.1668 (160.43)	0.0102; -0.3071 (161.00)	
47	0.0015; -1.0011 (158.87)	0.0009; -1.2384 (159.15)	0.0056; 2.7439 (162.36)	0.0057; 1.2895 (160.39)	0.0010; 0.2816 (160.54)	
48	0.0105; 8.0160 (158.33)	0.0002; -0.1067 (159.01)	0.0045; 1.2212 (161.89)	0.0046; -2.2624 (158.31)	0.0028; -1.7292 (160.23)	
49	0.0081; 3.9693 (158.24)	0.0035; -3.8501 (158.87)	0.0043; -6.1985 (161.75)	0.0020; -3.1952 (158.28)	0.0025; -2.3216 (160.02)	
50	0.0043; -4.1973 (157.21)	0.0130; -11.2861 (158.60)	0.0106; -6.2266 (161.41)	0.0240; -27.9787 (157.60)	0.0017; 0.1163 (159.83)	

Table S2. (Continued)

j	c107	c108	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{ nm})$	c111	c117	c122
1	0.0187; -1.4576 (246.82)	0.0194; 6.4195 (246.30)	0.0196; -3.5017 (245.83)	0.0084; -18.5069 (247.92)	0.0159; 8.5855 (247.39)	
2	0.0088; 8.1568 (243.90)	0.0091; -3.1705 (242.78)	0.0071; 2.4619 (242.13)	0.0252; 41.1578 (245.01)	0.0046; -0.9762 (241.43)	
3	0.0873; 20.3921 (236.32)	0.4601; 589.0322 (232.31)	0.3845; -189.4096 (231.97)	0.0150; 1.5246 (240.29)	0.0408; 61.2627 (235.45)	
4	0.0673; -260.7148 (234.36)	0.5481; -433.0479 (230.09)	0.6221; 94.8545 (229.56)	0.1241; -87.2825 (236.26)	0.1057; 155.7423 (230.97)	
5	0.3268; 161.1939 (231.21)	0.0046; -0.5150 (226.38)	0.0017; -1.0969 (225.26)	0.0612; -67.9692 (230.56)	0.5935; -131.2379 (228.54)	
6	0.2328; -7.9984 (226.40)	0.0004; -0.4328 (218.08)	0.0001; -0.0083 (216.88)	0.4702; 176.0419 (228.79)	0.0044; 11.6027 (227.68)	
7	0.0027; -1.0561 (225.48)	0.0002; 0.0859 (211.66)	0.0001; -0.0343 (210.07)	0.0943; 6.7884 (221.68)	0.0037; 16.9822 (216.48)	
8	0.0009; -0.3466 (224.04)	0.0000; 0.0062 (206.46)	0.0000; 0.0083 (204.96)	0.0007; -0.4902 (219.56)	0.0281; -4.6398 (213.44)	
9	0.0100; -4.9474 (205.98)	0.3602; 10.7705 (196.58)	0.3388; 38.0337 (196.66)	0.0130; 16.2877 (207.93)	0.0854; 14.8892 (203.50)	
10	0.0096; -2.9841 (201.78)	0.1273; -2.3644 (195.43)	0.1469; -22.9386 (195.16)	0.1706; -140.9935 (205.55)	0.0263; 8.0660 (199.96)	
11	0.0297; 49.9452 (200.13)	0.0505; 10.5323 (194.73)	0.0367; -5.8910 (194.53)	0.0869; 100.3606 (202.43)	0.2253; -98.8671 (199.19)	
12	0.0156; 11.6647 (199.53)	0.5046; 616.9993 (192.67)	0.4842; -206.6164 (192.64)	0.1007; 32.5560 (200.54)	0.0444; 41.7621 (197.34)	
13	0.0252; -87.8145 (197.83)	0.3197; -164.8586 (191.42)	0.6642; 42.0030 (190.83)	0.0032; -14.2401 (197.16)	0.1230; -154.1532 (195.46)	
14	0.3241; 478.1605 (196.08)	0.3072; -375.8316 (191.03)	0.1618; 119.6389 (190.52)	0.2210; 331.2260 (194.44)	0.2351; -100.6974 (194.52)	
15	0.1481; -563.0257 (194.54)	0.0988; -73.2687 (189.70)	0.0002; 0.1925 (189.10)	0.0460; -174.4793 (192.25)	0.0690; 415.9844 (192.50)	
16	0.3580; 206.3367 (191.54)	0.0069; 7.8180 (189.43)	0.0005; 0.0747 (188.59)	0.3459; -40.5960 (189.74)	0.4388; 12.6150 (189.74)	
17	0.4589; 60.6949 (190.84)	0.0012; -0.7828 (188.88)	0.0178; 10.9295 (187.43)	0.1668; -221.0226 (189.26)	0.3455; -153.2258 (188.98)	
18	0.0016; -8.1182 (188.49)	0.0000; 0.0761 (185.53)	0.0000; 0.0019 (185.21)	0.2683; 144.4502 (188.93)	0.1005; 31.4206 (186.97)	
19	0.0092; -11.7922 (185.21)	0.0284; -49.4299 (184.13)	0.0089; 13.7130 (184.63)	0.0136; -8.7549 (185.18)	0.0166; -28.5700 (184.73)	
20	0.1029; 11.4820 (184.18)	0.0097; 11.5031 (183.11)	0.0090; 24.5268 (182.43)	0.2025; -38.9606 (183.62)	0.0009; -4.9371 (182.73)	
21	0.0105; -37.1129 (183.95)	0.0504; -8.4221 (179.07)	0.0031; 1.8997 (180.65)	0.0031; 10.7326 (182.94)	0.0183; 5.0629 (181.41)	
22	0.1736; -65.6056 (180.58)	0.0597; 25.4119 (178.02)	0.0660; -43.7684 (178.62)	0.0787; 47.9218 (178.55)	0.0434; 34.3327 (178.92)	
23	0.0149; -16.9561 (176.27)	0.0193; -6.3109 (177.24)	0.0053; 1.8878 (177.81)	0.0324; -6.2448 (177.48)	0.0254; 3.1087 (176.69)	
24	0.0425; 30.7096 (174.66)	0.0104; 2.1209 (175.04)	0.0009; 0.0884 (175.03)	0.0208; -10.2585 (176.23)	0.0011; 3.4394 (175.41)	
25	0.0005; -1.8221 (174.34)	0.0100; 0.8329 (173.06)	0.0722; 1.6062 (173.70)	0.0182; 16.6610 (174.30)	0.0119; -1.6082 (174.01)	
26	0.0022; -1.9743 (172.89)	0.0275; -0.0130 (172.81)	0.0010; 0.4334 (172.29)	0.0014; -1.9255 (174.12)	0.0017; 1.8866 (172.87)	
27	0.0010; -1.5088 (172.33)	0.0021; -0.7919 (170.52)	0.0013; 2.1084 (170.49)	0.0088; -11.3237 (172.85)	0.0052; 0.5676 (171.45)	
28	0.0341; -21.3295 (170.62)	0.0011; -1.2624 (170.35)	0.0052; -3.2847 (169.92)	0.0200; -8.6855 (172.71)	0.0011; -0.2542 (170.37)	
29	0.0182; 19.6907 (170.37)	0.0096; 1.4225 (168.62)	0.0024; -2.1049 (169.38)	0.0036; -2.5052 (171.91)	0.0005; -0.3642 (169.51)	
30	0.0010; -2.4474 (168.24)	0.0011; -0.5106 (168.18)	0.0021; -0.1930 (169.26)	0.0091; -4.0933 (171.61)	0.0036; -0.9667 (168.90)	
31	0.0041; 2.0181 (168.04)	0.0014; 0.9114 (168.09)	0.0108; 3.2136 (167.06)	0.0056; -3.5704 (168.53)	0.0031; -4.2392 (168.74)	
32	0.0026; 4.9319 (167.46)	0.0095; 0.4888 (166.09)	0.0553; 23.1381 (165.62)	0.0024; -2.5623 (168.27)	0.0334; -11.7282 (168.37)	
33	0.0107; 2.6143 (167.32)	0.0010; 1.7942 (165.53)	0.0281; 5.8145 (165.31)	0.0056; -21.3802 (168.05)	0.0030; -5.2459 (167.81)	
34	0.0015; 0.4813 (166.89)	0.0018; -1.4136 (165.40)	0.0003; -0.0835 (164.73)	0.0095; 23.0574 (167.57)	0.0778; -65.4255 (166.79)	
35	0.0092; -5.6644 (166.31)	0.0077; 5.7862 (165.04)	0.0008; -0.3186 (164.23)	0.0014; 5.0294 (167.25)	0.0527; 9.8838 (166.15)	
36	0.0117; 2.6233 (166.22)	0.0020; 3.5339 (164.68)	0.0017; 2.7030 (163.68)	0.0012; -3.8688 (166.30)	0.0019; -5.2226 (165.63)	
37	0.0045; 2.0947 (165.45)	0.0381; -19.6284 (164.43)	0.0011; -2.5683 (163.51)	0.0364; -8.9476 (165.72)	0.1253; 24.3220 (165.03)	
38	0.0071; 0.6710 (165.12)	0.0358; 1.1979 (163.21)	0.1376; 4.7454 (163.17)	0.0035; -10.9989 (165.03)	0.0095; -2.5397 (164.13)	
39	0.0098; 13.4642 (163.84)	0.0010; -1.2786 (163.07)	0.0020; 0.7979 (162.91)	0.0275; -9.9313 (164.89)	0.0033; -6.6161 (163.82)	
40	0.0533; 3.1909 (163.63)	0.0003; 0.6492 (162.37)	0.0005; 1.5166 (162.07)	0.0146; -39.4852 (164.32)	0.0125; -5.2409 (163.26)	
41	0.0152; 8.9947 (163.58)	0.0799; -0.4492 (162.13)	0.0159; 1.5958 (161.29)	0.0528; -58.1474 (163.96)	0.0483; -18.5397 (162.92)	
42	0.0299; 15.2628 (162.59)	0.0252; -17.0129 (161.76)	0.0053; 1.7703 (161.20)	0.0133; -14.6615 (163.71)	0.0105; 9.6602 (162.45)	
43	0.0340; -12.2964 (162.33)	0.0055; 3.1084 (161.07)	0.0019; -0.5784 (160.60)	0.0384; 82.9126 (163.45)	0.0095; 21.3476 (161.85)	
44	0.0113; -24.4203 (161.89)	0.0002; -0.2694 (160.67)	0.0115; 2.2638 (160.32)	0.0104; 3.3820 (163.21)	0.0214; 5.7070 (161.57)	
45	0.0026; -7.4898 (161.19)	0.0016; -0.2191 (160.54)	0.0073; 4.2979 (160.29)	0.0047; -1.1991 (162.62)	0.0058; -2.1574 (161.07)	
46	0.0061; -4.9467 (160.85)	0.0091; 1.1165 (160.14)	0.0009; 0.1091 (159.36)	0.0042; -3.1427 (161.89)	0.0306; 2.8722 (160.92)	
47	0.0046; -0.9366 (160.75)	0.0295; 10.7061 (160.01)	0.0075; -5.3758 (158.85)	0.0005; -1.0041 (161.71)	0.0126; -4.0552 (160.49)	
48	0.0004; -0.4435 (160.63)	0.0047; -3.2629 (158.62)	0.0108; 21.7300 (158.58)	0.0024; -0.0854 (161.46)	0.0014; -1.0605 (160.26)	
49	0.0013; 2.2978 (160.53)	0.0013; -7.2000 (158.58)	0.0230; -6.3810 (158.33)	0.0031; -9.1266 (160.96)	0.0033; -8.5855 (159.76)	
50	0.0050; 3.6935 (159.92)	0.0009; 3.1095 (158.49)	0.0179; -3.6064 (158.28)	0.0608; 17.5902 (160.75)	0.0042; -0.1581 (159.42)	

Table S2. (Continued)

j	c127	c128	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$	c137	c144
1	0.0154; 1.1441 (247.78)	0.0320; 11.2374 (246.40)	0.0197; 19.6127 (248.12)	0.0120; 5.1649 (246.61)	0.0103; 4.6582 (245.60)
2	0.0063; 3.3170 (241.39)	0.0023; -0.6244 (244.91)	0.0049; -0.6649 (242.39)	0.0088; -7.9837 (242.42)	0.0102; 2.9310 (243.48)
3	0.0169; 4.5492 (234.58)	0.0712; 183.3188 (237.31)	0.0480; 211.9424 (235.15)	0.0441; 22.0896 (235.15)	0.0471; -20.2529 (233.62)
4	0.1983; -220.2606 (231.77)	0.0390; 61.4161 (231.23)	0.0571; 178.4258 (232.03)	0.1308; 70.8633 (233.69)	0.6056; -59.0394 (230.10)
5	0.6071; 125.9492 (229.26)	0.7042; -289.2800 (229.19)	0.5939; -395.7513 (230.34)	0.4940; -95.2692 (228.77)	0.0925; -7.6039 (229.40)
6	0.0033; -4.4291 (227.93)	0.0094; 17.6287 (223.08)	0.0063; -2.8186 (227.01)	0.1079; -8.8922 (226.69)	0.0007; 1.7640 (222.82)
7	0.0069; 7.7512 (215.36)	0.0334; 23.9464 (221.96)	0.0080; 8.8573 (217.04)	0.0061; 7.3749 (219.88)	0.0057; -0.7442 (221.01)
8	0.0194; 6.5047 (211.05)	0.0279; 20.2506 (218.03)	0.0470; -5.7710 (212.28)	0.0006; -0.9555 (216.11)	0.0251; -7.6665 (217.95)
9	0.1086; 1.5103 (201.93)	0.1483; -9.7017 (203.01)	0.0447; -125.0216 (208.37)	0.0133; -6.7852 (203.05)	0.0563; 77.8770 (203.94)
10	0.2387; 55.3511 (198.51)	0.2235; 221.9954 (200.37)	0.0222; 93.0010 (203.15)	0.0370; 27.6391 (200.87)	0.0508; 53.6783 (202.67)
11	0.0648; -43.9251 (197.75)	0.0223; -109.2281 (197.84)	0.1846; -127.2194 (199.89)	0.0429; -15.2076 (199.13)	0.0202; -42.3916 (201.35)
12	0.0613; 15.0736 (196.33)	0.0140; 61.6783 (195.56)	0.0843; 33.6134 (197.66)	0.0890; -75.7996 (197.86)	0.1150; -10.3059 (198.49)
13	0.1480; 543.0479 (195.16)	0.1299; -1.6286 (195.03)	0.1441; 435.2036 (194.57)	0.0499; 75.5154 (196.61)	0.1425; 76.3771 (195.57)
14	0.3087; -331.1330 (193.84)	0.0521; -62.7518 (193.83)	0.1180; -13.9183 (193.65)	0.2544; -389.9577 (195.35)	0.1627; -171.0511 (195.09)
15	0.0509; -344.7369 (191.92)	0.1428; -0.4467 (191.30)	0.8528; -316.4647 (190.88)	0.0447; 295.0773 (192.84)	0.6160; 52.8830 (190.98)
16	0.0309; -76.7650 (190.58)	0.5825; -128.5293 (190.87)	0.0149; 24.5204 (189.92)	0.9296; -83.4756 (190.92)	0.1745; 117.1897 (189.87)
17	0.7299; 233.7090 (189.66)	0.1101; -56.9468 (189.68)	0.0727; -104.0191 (189.32)	0.0724; 91.7474 (189.81)	0.2369; -115.9526 (189.39)
18	0.0256; 39.5530 (184.95)	0.1165; 177.0168 (188.58)	0.0213; -8.4381 (185.35)	0.0343; 16.9001 (185.40)	0.0188; 43.9336 (185.28)
19	0.0018; -0.0215 (183.97)	0.0894; -49.6757 (186.89)	0.0340; 52.1223 (184.07)	0.1193; 52.3252 (183.68)	0.0045; 3.1923 (181.47)
20	0.0088; -3.5800 (182.02)	0.0087; -34.0409 (185.64)	0.0062; 4.8479 (183.02)	0.0160; 24.0445 (182.83)	0.0925; -39.2036 (181.20)
21	0.0809; -49.0299 (180.48)	0.0833; -68.2775 (180.85)	0.0435; -44.3436 (180.64)	0.0066; 4.3460 (182.20)	0.0361; 8.6454 (179.81)
22	0.0048; -3.4872 (178.00)	0.1393; 87.3084 (178.99)	0.0506; 41.3750 (179.87)	0.0709; -47.6010 (179.89)	0.0491; -23.2999 (179.62)
23	0.0198; 6.0043 (175.67)	0.1021; -71.5170 (177.96)	0.0613; -89.9116 (179.64)	0.0403; 4.3785 (177.30)	0.0161; -5.1634 (177.54)
24	0.0015; 0.1027 (175.05)	0.0016; -0.5220 (175.32)	0.0210; -3.1743 (174.26)	0.0083; 2.6518 (174.75)	0.0128; 1.8670 (173.29)
25	0.0008; -0.6633 (172.51)	0.0104; 5.7102 (174.20)	0.0053; -0.2329 (172.28)	0.0025; 2.5388 (173.22)	0.0126; 4.8057 (172.98)
26	0.0215; -6.6107 (172.36)	0.0017; -1.0131 (173.04)	0.0016; 3.6246 (171.19)	0.0004; 0.4660 (172.35)	0.0040; -0.7449 (170.86)
27	0.0047; -2.9837 (171.62)	0.0036; -3.1872 (172.12)	0.0077; -1.0129 (171.00)	0.0001; -2.6584 (171.67)	0.0136; -4.0028 (170.81)
28	0.0038; -3.5756 (168.60)	0.0023; -3.6478 (171.76)	0.0108; 4.5473 (170.40)	0.0018; -3.5635 (171.25)	0.0317; -3.5829 (170.44)
29	0.0009; -2.0817 (168.41)	0.0013; -1.0899 (171.40)	0.0062; 0.1017 (168.10)	0.0056; -4.1125 (170.83)	0.0010; -0.9827 (168.48)
30	0.0009; 1.2015 (168.35)	0.0028; -8.0420 (170.00)	0.0031; 2.9100 (167.83)	0.0129; 2.9542 (170.27)	0.0606; -41.6895 (168.12)
31	0.0874; 26.5563 (167.28)	0.0022; -0.2133 (169.81)	0.0460; -1.4150 (167.54)	0.0033; -0.4063 (169.45)	0.0024; 4.9125 (167.22)
32	0.0305; 16.7338 (165.84)	0.0051; -8.9457 (169.55)	0.0122; -1.9324 (166.95)	0.0030; 2.3095 (168.05)	0.0241; 45.3112 (167.06)
33	0.0545; 11.5961 (165.01)	0.0163; -6.7013 (169.23)	0.0178; -1.8562 (166.17)	0.0135; 4.3941 (167.92)	0.0983; -6.2409 (166.18)
34	0.0796; -20.6670 (164.90)	0.0048; 0.6684 (168.08)	0.0059; 9.1252 (166.10)	0.0506; 14.7461 (165.98)	0.0004; 1.2507 (165.84)
35	0.0591; 6.6754 (164.61)	0.0010; -0.7469 (167.34)	0.0532; 34.8106 (165.92)	0.0010; 0.8421 (165.23)	0.1011; -7.0153 (164.60)
36	0.0056; 2.9893 (164.01)	0.0301; 26.5299 (166.84)	0.0764; 3.7038 (165.50)	0.0092; 10.1431 (164.95)	0.0091; -10.1733 (164.12)
37	0.0077; 4.8954 (163.27)	0.0006; 3.0160 (166.13)	0.0096; 1.6538 (164.87)	0.0074; -2.2988 (164.50)	0.0056; 3.0065 (164.02)
38	0.0008; 3.3163 (162.72)	0.0032; -11.7665 (165.17)	0.0354; -13.9773 (164.17)	0.0095; -13.8427 (164.24)	0.0211; 4.3853 (163.83)
39	0.0008; -0.0449 (162.56)	0.0021; 0.7589 (165.13)	0.0074; 8.0184 (163.89)	0.0794; 65.7719 (164.08)	0.0212; 11.8674 (163.47)
40	0.0023; -2.4648 (162.25)	0.0045; -4.6281 (164.94)	0.0239; -3.1523 (163.60)	0.0134; 14.2737 (163.94)	0.0022; 0.2610 (162.82)
41	0.0003; 0.2318 (161.88)	0.0007; 2.0282 (164.67)	0.0099; -10.2828 (163.32)	0.0742; -55.2663 (163.61)	0.0036; -1.4107 (162.62)
42	0.0178; -15.0186 (161.61)	0.0252; -10.5170 (162.50)	0.0240; 9.4650 (163.27)	0.0217; -16.5240 (163.32)	0.0090; -7.6152 (161.96)
43	0.0108; 13.8954 (161.41)	0.0040; 8.0117 (162.22)	0.0039; -10.2229 (162.85)	0.0027; -2.2526 (162.95)	0.0362; -11.5431 (161.75)
44	0.0018; -1.0350 (161.25)	0.0220; 6.8374 (161.92)	0.0414; -16.2552 (162.75)	0.0202; -1.8405 (162.54)	0.0179; -0.9379 (161.64)
45	0.0341; -11.5121 (160.88)	0.0038; -3.5016 (161.65)	0.0259; -5.6118 (162.47)	0.0196; -16.6128 (162.12)	0.0117; -3.0008 (161.36)
46	0.0247; 1.2556 (160.37)	0.0158; -0.4745 (161.49)	0.0099; -11.2002 (162.27)	0.0078; 0.0705 (161.42)	0.0009; 4.0949 (161.01)
47	0.0025; 1.2217 (159.76)	0.0022; -0.9267 (160.09)	0.0094; 2.6248 (161.40)	0.0097; -1.9540 (161.30)	0.0012; -1.1906 (160.77)
48	0.0130; 15.5780 (159.55)	0.0014; -1.0134 (159.94)	0.0021; -5.7719 (160.98)	0.0056; 20.7178 (160.18)	0.0010; -2.2029 (160.66)
49	0.0001; 0.0554 (159.13)	0.0759; -15.2773 (159.53)	0.0072; -3.9924 (160.70)	0.0062; -10.9056 (159.97)	0.0054; 7.9585 (160.26)
50	0.0046; -1.1348 (158.79)	0.0308; -37.4179 (159.45)	0.0391; 0.8224 (160.50)	0.0438; -10.6804 (159.87)	0.0038; -2.1116 (160.24)

Table S2. (Continued)

<i>j</i>	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$				
	c177	c184	c185	c195	c200
1	0.0090; -25.0679 (248.79)	0.0104; 3.7226 (246.21)	0.0150; -15.0801 (247.62)	0.0152; -2.9025 (245.70)	0.0120; 8.1747 (246.78)
2	0.0258; 33.1100 (245.00)	0.0192; -8.0527 (245.75)	0.0104; 2.6055 (244.69)	0.0012; -2.8919 (240.74)	0.0090; -10.1433 (242.33)
3	0.0120; 10.3486 (240.05)	0.6837; 439.2465 (232.14)	0.0079; -79.3220 (237.11)	0.0706; 37.4100 (236.28)	0.0304; 13.7848 (235.29)
4	0.1440; -82.1320 (235.94)	0.1769; -452.6538 (230.40)	0.0272; -269.0740 (233.75)	0.1976; 293.6548 (231.09)	0.1591; 71.9251 (233.93)
5	0.0343; -58.5696 (230.47)	0.0009; 0.7564 (224.12)	0.7000; 374.8839 (231.49)	0.0163; -19.7342 (228.33)	0.4637; -93.3327 (228.65)
6	0.5089; 164.3389 (228.79)	0.0000; 0.0323 (220.42)	0.0631; 32.3777 (228.11)	0.3697; -262.3258 (227.52)	0.1104; -11.3831 (226.76)
7	0.0765; 5.0480 (221.19)	0.0000; -0.0126 (210.65)	0.0091; -0.7602 (220.43)	0.0100; -5.1167 (215.35)	0.0092; 6.7358 (219.54)
8	0.0049; 5.7335 (218.66)	0.0000; 0.0245 (204.89)	0.0347; 1.0995 (216.05)	0.0004; -3.0409 (211.85)	0.0014; -2.0503 (215.68)
9	0.0301; 43.9724 (207.32)	0.1857; 72.7670 (197.75)	0.0251; 86.3334 (209.36)	0.0138; -6.6786 (206.97)	0.0177; -10.4172 (203.18)
10	0.1763; -125.3798 (204.56)	0.2634; -126.3810 (195.45)	0.0194; -73.7010 (204.25)	0.0047; -2.9361 (202.21)	0.0420; 42.6809 (200.92)
11	0.1106; 124.2420 (202.13)	0.0030; -3.6474 (193.97)	0.1993; 65.4914 (199.57)	0.0505; -59.1278 (199.38)	0.0522; -27.4487 (199.13)
12	0.0668; 55.9393 (199.73)	0.5820; 412.4387 (193.52)	0.0946; 115.8274 (197.82)	0.2692; -20.3208 (196.81)	0.0937; -93.9587 (198.06)
13	0.0117; -101.3471 (196.99)	0.2825; -222.8630 (191.64)	0.1540; -346.0475 (195.14)	0.1403; 27.0895 (196.17)	0.0528; 103.9484 (196.45)
14	0.2148; 372.7058 (194.58)	0.0145; -9.5350 (191.49)	0.1238; -28.0272 (193.55)	0.0371; -6.1275 (194.78)	0.2486; -410.7641 (195.23)
15	0.0812; -229.1275 (192.44)	0.0443; -86.0420 (190.99)	0.6952; 60.2600 (190.89)	0.2190; 515.6399 (191.79)	0.0437; 306.4958 (192.74)
16	0.2363; -50.5710 (189.79)	0.2172; -31.2772 (190.12)	0.0499; 52.8659 (190.43)	0.4524; -537.2430 (191.00)	0.8674; -92.9011 (190.89)
17	0.1399; -209.9689 (189.51)	0.0068; -0.2327 (188.59)	0.2804; 165.0480 (189.38)	0.2795; 7.7745 (189.93)	0.0728; 96.0461 (189.87)
18	0.3684; 166.0577 (188.82)	0.0102; -25.9143 (188.21)	0.0051; -20.2723 (184.71)	0.0103; 1.5033 (187.02)	0.0675; 21.8009 (186.32)
19	0.0133; -13.1826 (185.00)	0.0000; -0.1164 (185.95)	0.0162; 21.3850 (183.86)	0.0088; -14.1875 (184.39)	0.0939; 20.3747 (184.15)
20	0.1496; -77.6026 (183.66)	0.0000; -0.0005 (181.74)	0.0076; -8.6345 (182.04)	0.0506; 69.6764 (184.18)	0.0419; 55.0048 (183.19)
21	0.0757; 46.3990 (183.05)	0.0034; -0.1070 (177.68)	0.0106; -4.2404 (181.95)	0.0025; -8.6487 (181.08)	0.0028; 0.2267 (181.91)
22	0.0745; 29.3746 (178.39)	0.0111; -5.7439 (177.32)	0.0791; 8.7897 (178.47)	0.0103; -17.0796 (179.77)	0.0705; -50.3348 (180.15)
23	0.0053; 8.4642 (177.58)	0.0792; 8.4663 (174.40)	0.0845; 43.7928 (177.56)	0.0376; 9.9279 (179.18)	0.0368; 3.7940 (177.32)
24	0.0527; -14.7378 (176.29)	0.0056; 0.1668 (173.71)	0.0061; 2.9570 (173.01)	0.0226; 19.8523 (177.13)	0.0120; 6.8873 (174.14)
25	0.0111; 11.6516 (174.90)	0.0042; 1.0596 (173.39)	0.0017; 0.1660 (172.35)	0.0019; 4.8092 (172.18)	0.0013; 1.1291 (173.40)
26	0.0022; -1.6400 (174.64)	0.0010; -3.8911 (172.23)	0.0118; 0.9714 (172.20)	0.0028; -4.4193 (172.03)	0.0008; -0.4555 (172.43)
27	0.0009; -1.1358 (173.17)	0.0436; 22.0208 (172.11)	0.0026; -0.8421 (170.12)	0.0006; -0.2299 (171.88)	0.0001; -2.8601 (172.18)
28	0.0157; -17.3214 (172.80)	0.0000; 0.1667 (170.63)	0.0012; -1.1239 (169.77)	0.0052; -0.0758 (171.77)	0.0050; -6.8829 (171.33)
29	0.0216; 3.3921 (171.91)	0.0039; 1.5380 (170.06)	0.0193; 14.8803 (169.23)	0.0263; -7.2152 (170.89)	0.0049; -5.1155 (170.92)
30	0.0067; -8.4965 (171.35)	0.0073; 15.5658 (168.70)	0.0097; -7.7205 (168.67)	0.0004; 1.2046 (168.90)	0.0159; 5.5823 (170.72)
31	0.0004; -1.0225 (168.94)	0.0686; -18.0033 (167.41)	0.0103; -12.9438 (168.64)	0.0661; 28.4333 (167.96)	0.0013; 0.7981 (170.04)
32	0.0011; -2.7518 (168.62)	0.0330; 9.9053 (167.05)	0.0093; -3.1892 (167.31)	0.0228; -0.9545 (167.58)	0.0012; 1.5349 (168.14)
33	0.0056; -1.9224 (168.39)	0.0104; -1.2386 (166.88)	0.0119; 4.1592 (166.35)	0.0021; -0.6368 (167.01)	0.0364; 15.6375 (167.27)
34	0.0057; -1.6358 (167.28)	0.0013; -5.4230 (166.77)	0.0553; 3.5496 (166.23)	0.0221; 38.0129 (166.45)	0.0013; -2.3458 (166.46)
35	0.0031; 19.7291 (166.81)	0.0025; 0.5164 (166.42)	0.0021; -2.2433 (165.86)	0.0422; 75.5217 (166.24)	0.0388; 15.0287 (165.70)
36	0.0248; 9.6414 (165.97)	0.0139; -15.2644 (164.84)	0.0073; -2.8260 (165.33)	0.0145; -39.4687 (165.87)	0.0054; 6.9644 (165.25)
37	0.0273; -25.2387 (165.61)	0.0015; 1.5092 (164.35)	0.0095; -1.7710 (164.73)	0.0294; 9.3781 (165.71)	0.0034; 2.7040 (164.72)
38	0.0115; -10.4776 (165.39)	0.0003; -0.0198 (164.20)	0.0179; -9.2372 (164.24)	0.0335; 13.0536 (165.43)	0.0217; -2.4019 (164.53)
39	0.0277; -28.6865 (164.65)	0.0006; 0.0835 (163.85)	0.0088; -11.2370 (164.14)	0.0348; -13.7323 (165.17)	0.0553; 57.9575 (164.24)
40	0.0003; 1.2094 (164.32)	0.0074; -2.2634 (163.77)	0.0109; -4.2568 (163.62)	0.0778; -31.9402 (165.10)	0.0250; -4.4708 (164.10)
41	0.0076; 5.3931 (164.10)	0.0075; 4.2655 (163.54)	0.0265; 2.7049 (163.60)	0.0572; -2.1048 (164.70)	0.0237; -13.1475 (163.99)
42	0.0378; -74.5730 (163.67)	0.0002; 0.7067 (162.39)	0.0346; -37.9483 (163.16)	0.0129; -1.7278 (163.99)	0.0672; -49.0950 (163.68)
43	0.0233; -8.2129 (163.09)	0.0017; -0.2065 (162.09)	0.0076; 3.2906 (162.60)	0.0046; -9.8470 (162.91)	0.0071; 1.0716 (163.00)
44	0.0292; 52.5326 (163.03)	0.0033; -1.1356 (161.79)	0.0305; 32.6862 (162.25)	0.0087; -15.8418 (162.80)	0.0152; 0.0640 (162.92)
45	0.0135; 28.3094 (162.80)	0.0058; 5.7912 (161.00)	0.0123; 2.9855 (162.07)	0.0020; 0.1702 (162.71)	0.0306; -25.0492 (162.59)
46	0.0041; -10.8914 (161.39)	0.0015; -1.4761 (160.74)	0.0064; -7.7931 (161.53)	0.0343; -4.8834 (161.77)	0.0052; -3.0601 (161.76)
47	0.0028; -0.4992 (161.22)	0.0020; -0.8030 (160.49)	0.0058; 2.5330 (161.42)	0.0037; -7.3937 (161.62)	0.0153; 2.4967 (161.38)
48	0.0144; 17.7341 (160.84)	0.0224; 18.8002 (160.30)	0.0030; -0.8196 (161.14)	0.0041; 1.4282 (160.82)	0.0013; 0.5272 (160.78)
49	0.0097; -23.6558 (160.49)	0.0227; -1.8015 (159.81)	0.0048; 8.3858 (161.11)	0.0021; -0.1158 (160.71)	0.0032; 12.1269 (160.58)
50	0.0185; 7.1824 (160.41)	0.0058; -7.6534 (159.77)	0.0079; -4.6581 (160.77)	0.0118; 0.3207 (160.59)	0.0038; -8.5364 (160.31)

Table S2. (Continued)

<i>j</i>	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$				
	c205	c207	c217	c231	c242
1	0.0207; 41.6953 (247.37)	0.0105; 11.1202 (245.63)	0.0109; 1.3851 (242.50)	0.0104; -1.2906 (243.58)	0.0091; 2.5450 (243.44)
2	0.0073; -23.4059 (246.17)	0.0117; -0.0212 (243.69)	0.0064; 2.4604 (241.74)	0.0071; -4.1741 (242.85)	0.0063; -4.0538 (241.17)
3	0.0098; -16.8926 (241.74)	0.0750; 18.0652 (234.09)	0.5168; -29.5216 (229.81)	0.1844; -315.5729 (232.67)	0.1495; 123.5800 (232.31)
4	0.0443; 200.1681 (237.84)	0.6310; -95.9636 (230.20)	0.2462; 6.4110 (226.93)	0.1140; 86.8508 (231.04)	0.1874; -132.1859 (228.27)
5	0.2256; -96.5397 (234.09)	0.0443; -5.7879 (229.55)	0.0002; 0.1606 (214.48)	0.2681; 110.0442 (227.79)	0.1102; -24.9382 (225.88)
6	0.5726; -118.0688 (229.55)	0.0003; 1.6626 (223.20)	0.0003; 0.1736 (212.36)	0.0331; -20.3816 (222.11)	0.0264; -37.4282 (225.00)
7	0.0029; 11.8303 (227.71)	0.0005; 0.4708 (221.28)	0.0000; 0.0642 (209.71)	0.0162; 2.0274 (217.56)	0.0986; 53.2091 (219.21)
8	0.0421; 4.6926 (223.67)	0.0320; -11.7165 (218.06)	0.0002; 0.0791 (205.74)	0.0447; 48.6211 (214.52)	0.0056; -22.0054 (216.43)
9	0.0080; -20.5480 (209.09)	0.0768; 50.2790 (204.35)	0.2419; -10.8872 (196.54)	0.0258; 56.7425 (207.73)	0.0096; -23.7109 (206.22)
10	0.0685; 65.7214 (204.23)	0.0344; 28.9641 (202.98)	0.2156; 36.6937 (195.50)	0.0267; 55.3533 (202.34)	0.0028; -36.4399 (203.09)
11	0.0034; 1.9619 (202.71)	0.0386; -0.3220 (201.42)	0.6026; 264.6890 (193.20)	0.1151; 66.2577 (197.97)	0.0251; -24.8180 (199.54)
12	0.0092; -50.0374 (200.24)	0.1152; 4.2313 (198.62)	0.3213; -220.0086 (192.37)	0.1010; -15.3041 (196.75)	0.0758; 37.3120 (197.17)
13	0.0427; 134.0745 (198.87)	0.1143; -7.9778 (195.25)	0.0046; -3.2051 (190.41)	0.2704; -123.6220 (194.52)	0.0883; -49.9719 (195.46)
14	0.2532; -495.7489 (194.75)	0.1824; -72.8410 (194.84)	0.0007; 1.0151 (190.39)	0.0425; -276.3712 (193.33)	0.3909; 177.0091 (193.97)
15	0.1421; 358.4367 (193.40)	0.6550; 25.8549 (191.13)	0.0001; -0.0359 (188.31)	0.2522; -67.6108 (192.25)	0.2108; 117.3334 (193.11)
16	0.0051; 23.9498 (190.99)	0.0534; 92.0267 (189.82)	0.1400; -130.6736 (187.76)	0.4396; 252.8330 (190.44)	0.2960; -270.7441 (192.25)
17	0.9348; -28.6037 (190.58)	0.2955; -87.5092 (189.12)	0.0338; 60.1715 (184.09)	0.0221; 26.7153 (187.70)	0.2150; 19.9615 (188.21)
18	0.0098; 16.0334 (186.98)	0.0113; 30.6603 (186.19)	0.0044; -9.3539 (183.51)	0.0744; 81.3157 (186.01)	0.0384; 65.5327 (184.07)
19	0.0189; -14.1463 (185.87)	0.0161; 11.1460 (181.53)	0.0006; -1.3494 (183.44)	0.0634; -49.1685 (184.91)	0.0187; 8.8829 (183.43)
20	0.0162; 40.0470 (185.31)	0.1504; -59.7109 (180.95)	0.0581; -48.8579 (180.12)	0.0477; 50.4661 (184.32)	0.0129; 14.4548 (182.10)
21	0.0175; 3.4887 (184.30)	0.0105; 0.6367 (180.31)	0.0092; -1.9418 (178.91)	0.0065; -1.1379 (182.16)	0.0013; -0.0988 (181.89)
22	0.2430; -53.9015 (179.63)	0.0300; -9.4539 (179.42)	0.0042; 12.1074 (178.28)	0.0259; -29.5894 (180.97)	0.0054; 4.3661 (180.39)
23	0.0009; -1.9769 (178.05)	0.0164; -1.7359 (177.36)	0.0076; 2.5120 (175.35)	0.0688; 58.3313 (180.48)	0.0054; -15.1761 (179.81)
24	0.0093; -14.0418 (177.59)	0.0039; -8.4323 (173.68)	0.0006; 0.3918 (173.92)	0.0020; -1.0337 (175.43)	0.0147; -19.7016 (179.24)
25	0.0086; -14.1385 (175.92)	0.0216; 15.4823 (173.36)	0.0014; 0.9256 (172.63)	0.0047; 2.5826 (175.03)	0.0023; 0.6252 (174.15)
26	0.0489; 5.2786 (174.90)	0.0011; -2.0265 (171.48)	0.0392; 0.9189 (170.40)	0.0035; -1.1060 (172.88)	0.0138; 8.3225 (172.98)
27	0.0009; -1.7811 (173.38)	0.0277; -2.3946 (171.19)	0.0022; -0.7431 (170.16)	0.0039; -0.9745 (170.84)	0.0100; -18.8418 (172.68)
28	0.0004; 0.7316 (173.22)	0.0333; -9.0806 (170.10)	0.0027; -0.2774 (169.97)	0.0145; 2.2214 (170.75)	0.0378; -6.1355 (172.19)
29	0.0013; 0.7740 (172.72)	0.0021; -0.0608 (169.20)	0.0083; 1.9519 (169.20)	0.0276; 11.1486 (169.62)	0.0133; -3.9132 (170.68)
30	0.0022; -3.3632 (171.78)	0.0566; -32.9450 (168.30)	0.0015; -0.3788 (168.60)	0.0127; -9.0649 (169.11)	0.0087; 15.6029 (170.19)
31	0.0255; -2.6292 (169.32)	0.0037; -0.1035 (167.49)	0.0033; -3.8058 (168.46)	0.0066; 9.9568 (168.41)	0.0405; 31.0541 (169.94)
32	0.0035; 3.1017 (169.14)	0.0233; 43.2133 (166.96)	0.0690; -32.1617 (167.71)	0.0036; 1.2460 (168.15)	0.0041; -2.5943 (169.59)
33	0.0510; 6.7449 (168.53)	0.0017; -1.3380 (166.24)	0.0839; 34.7719 (166.16)	0.0262; -36.6725 (167.40)	0.0421; 5.9919 (168.71)
34	0.0010; -6.4002 (168.12)	0.0727; -1.9106 (165.98)	0.1079; -43.4580 (165.63)	0.0200; 9.0569 (166.87)	0.0020; -4.7910 (168.11)
35	0.0029; 0.1590 (167.33)	0.0042; 2.4673 (165.13)	0.0007; 3.3777 (165.47)	0.0434; 76.8983 (166.48)	0.0086; 9.9813 (167.97)
36	0.0042; 19.7967 (166.95)	0.0185; 9.6064 (164.85)	0.0067; 0.4357 (164.52)	0.0231; 1.5663 (165.58)	0.0098; -13.7305 (167.26)
37	0.0066; 18.2392 (166.70)	0.1020; -38.6431 (164.59)	0.0086; 0.9972 (164.35)	0.0551; 11.0560 (165.17)	0.0348; -1.5337 (166.60)
38	0.0016; 0.8570 (163.94)	0.0147; 7.4016 (163.88)	0.0061; -10.3913 (163.79)	0.0353; -23.0457 (164.71)	0.0275; 39.0951 (166.36)
39	0.0026; 0.7076 (163.85)	0.0202; 15.4392 (163.66)	0.1732; 2.6470 (163.64)	0.0356; -2.0661 (164.39)	0.0173; 24.0310 (165.93)
40	0.0002; 1.5142 (163.41)	0.0115; 5.8317 (163.11)	0.0031; -8.5206 (163.32)	0.0223; 3.3944 (163.42)	0.0014; -3.5993 (165.45)
41	0.0017; -2.7912 (163.28)	0.0004; -2.9994 (162.87)	0.0151; -24.1870 (162.91)	0.0658; -18.9416 (163.26)	0.0449; 53.1346 (165.37)
42	0.0016; -4.2183 (162.20)	0.0068; -4.5242 (162.80)	0.0032; -0.1557 (161.58)	0.0121; 0.6378 (162.93)	0.1113; 9.4752 (164.85)
43	0.0024; -12.4026 (162.00)	0.0028; 0.3513 (162.44)	0.0009; 4.0994 (161.45)	0.0282; 23.5543 (162.83)	0.0409; -5.3761 (164.77)
44	0.0005; -3.3647 (161.78)	0.0099; -6.1130 (161.95)	0.0028; 4.1601 (161.32)	0.0355; -9.0240 (162.79)	0.0074; 3.2824 (164.43)
45	0.0021; -1.3390 (161.60)	0.0352; -8.8863 (161.73)	0.0109; -0.9088 (160.91)	0.0186; 6.0693 (161.74)	0.0825; 18.7146 (163.98)
46	0.0312; -8.8949 (161.43)	0.0221; 3.6668 (161.36)	0.0022; 1.3949 (160.12)	0.0328; -24.7650 (161.53)	0.0232; -31.1909 (163.73)
47	0.0027; 0.4837 (160.71)	0.0029; 5.2191 (160.84)	0.0046; 2.0040 (160.09)	0.0006; -3.4127 (161.22)	0.0487; 15.9391 (163.17)
48	0.0037; -8.1028 (160.56)	0.0008; -1.7298 (160.79)	0.0042; -0.3485 (159.94)	0.0043; -6.3985 (160.51)	0.0034; -6.9706 (162.78)
49	0.0144; 25.2142 (160.28)	0.0020; 1.8374 (160.50)	0.0087; -4.2467 (159.67)	0.0004; -1.0211 (160.48)	0.0025; 2.4279 (162.42)
50	0.0136; 4.1219 (160.12)	0.0047; 2.5975 (160.25)	0.0044; -4.1058 (159.45)	0.0005; 1.4165 (160.06)	0.0100; -9.9264 (162.09)

Table S2. (Continued)

<i>j</i>	$f_j; R_j, 10^{-40} \text{ erg cm}^3 (\lambda_j, \text{nm})$				
	c247	c248	c258	c263	c284
1	0.0068; 11.6114 (250.17)	0.0158; 6.4668 (244.57)	0.0172; -6.3974 (245.57)	0.0189; -5.2667 (245.34)	0.0145; 5.4107 (247.63)
2	0.0047; -6.8128 (249.07)	0.0041; -0.8056 (243.47)	0.0113; -0.8428 (244.47)	0.0131; -0.7546 (244.01)	0.0113; -5.6907 (242.96)
3	0.1007; -46.0696 (241.09)	0.0291; 178.3205 (233.55)	0.5050; 241.4092 (232.24)	0.4440; 167.0435 (231.95)	0.1820; 268.4576 (233.24)
4	0.0169; -29.5668 (238.38)	0.6290; -214.6973 (230.23)	0.1944; -155.9759 (229.34)	0.3010; -114.5640 (229.09)	0.2387; -94.4743 (230.49)
5	0.1632; -47.9460 (233.77)	0.1085; -15.5304 (225.64)	0.0724; -125.5906 (229.11)	0.0347; 36.4769 (228.84)	0.0373; -30.1173 (222.99)
6	0.3484; 187.3725 (228.26)	0.0191; -3.7611 (220.09)	0.0002; -0.1777 (226.53)	0.0029; -1.9733 (226.44)	0.0023; 1.7635 (222.34)
7	0.0105; -26.7967 (222.86)	0.0059; 3.1499 (218.75)	0.0000; -0.0014 (208.12)	0.0004; -0.2243 (205.93)	0.0639; -37.5537 (219.53)
8	0.0329; 8.9101 (217.65)	0.0081; 2.7164 (216.00)	0.0001; 0.0155 (201.57)	0.0001; 0.1497 (199.58)	0.0275; -7.3890 (217.84)
9	0.0089; 8.5240 (208.76)	0.2088; 7.1478 (203.24)	0.0035; 6.4914 (198.25)	0.0100; -0.0961 (198.38)	0.1122; -122.8316 (204.52)
10	0.0165; 61.4149 (204.02)	0.0006; -17.7430 (200.54)	0.1504; 132.0107 (197.02)	0.2700; -4.8348 (197.47)	0.0088; 25.7610 (202.14)
11	0.0201; 15.7190 (203.70)	0.0651; -6.0875 (199.76)	0.0082; -9.9056 (196.39)	0.0092; 0.4659 (196.47)	0.1381; -40.0276 (200.23)
12	0.0263; -47.3685 (201.78)	0.0531; -8.3410 (196.16)	0.2482; -166.3915 (195.88)	0.2119; 23.8200 (195.56)	0.1174; 3.0659 (198.70)
13	0.0444; 21.3252 (196.85)	0.1165; 181.2642 (195.43)	0.4392; 632.0614 (192.81)	0.2963; 438.2106 (192.92)	0.1838; 143.4599 (194.41)
14	0.1097; 135.7690 (195.58)	0.1892; -98.6077 (194.47)	0.3032; -337.4858 (192.26)	0.1391; -223.8187 (192.33)	0.0907; 22.0928 (193.78)
15	0.0405; -82.3423 (194.36)	0.5759; -98.6031 (190.60)	0.0543; -176.0838 (191.90)	0.0330; -68.0687 (191.46)	0.0832; 394.6248 (192.47)
16	0.2882; -377.1381 (192.60)	0.4845; -8.2240 (189.58)	0.2877; -119.4760 (190.27)	0.5524; -175.3829 (191.11)	0.3280; -405.2140 (190.53)
17	0.4739; 311.1505 (191.89)	0.0065; -11.8211 (187.78)	0.0021; 8.7284 (187.81)	0.0100; 25.9359 (189.22)	0.2544; -95.8496 (189.93)
18	0.2674; -63.7565 (189.82)	0.0058; 7.5853 (185.26)	0.0001; -0.1974 (184.34)	0.0012; 0.5573 (184.34)	0.0231; 6.1507 (188.03)
19	0.0285; -6.8143 (187.44)	0.0082; 25.7111 (182.82)	0.0004; 0.6159 (184.08)	0.0011; -0.9242 (183.57)	0.0118; 31.6903 (187.94)
20	0.1058; -0.1345 (185.37)	0.0245; -13.7221 (181.62)	0.0000; 0.0322 (179.48)	0.0000; -0.0213 (179.36)	0.0105; -11.7572 (186.84)
21	0.0015; 4.1963 (182.27)	0.0117; -3.3344 (179.32)	0.0170; 4.5314 (177.61)	0.0019; -2.6942 (177.60)	0.0127; -10.4311 (179.45)
22	0.0082; -7.0305 (181.02)	0.0889; -38.7026 (178.63)	0.0153; 3.3691 (176.96)	0.0196; -14.2094 (176.58)	0.0100; -1.2064 (177.19)
23	0.0099; 33.0452 (179.38)	0.0240; -3.8343 (177.16)	0.0860; 16.2213 (175.79)	0.0936; 9.7985 (175.55)	0.0039; 7.7787 (174.12)
24	0.1158; -41.7518 (179.26)	0.0042; -1.6674 (176.01)	0.0106; 3.9404 (174.72)	0.0780; -6.1894 (175.12)	0.0499; -17.4094 (173.79)
25	0.0162; -1.1745 (175.54)	0.0031; -3.5176 (173.35)	0.0431; 7.9168 (173.41)	0.0003; 0.1055 (173.82)	0.0065; 0.2777 (172.30)
26	0.0054; -0.6687 (174.19)	0.0470; 6.5657 (170.26)	0.0007; -0.3251 (171.97)	0.0007; -0.4333 (171.59)	0.0471; 17.1051 (172.06)
27	0.0221; -20.1334 (173.49)	0.0011; -1.2352 (169.95)	0.0029; -3.9366 (170.63)	0.0078; -5.6926 (170.84)	0.0047; -3.9579 (171.03)
28	0.0070; -5.5098 (172.21)	0.0110; 1.8495 (169.40)	0.0075; -4.5811 (170.51)	0.0003; 0.9267 (170.20)	0.0152; -2.7543 (169.87)
29	0.0020; 5.6665 (170.85)	0.0019; -1.2317 (169.34)	0.0034; 10.3004 (169.78)	0.1130; -21.2202 (169.91)	0.0191; 17.4567 (169.80)
30	0.0059; 12.0022 (170.47)	0.0362; 14.8011 (168.35)	0.0760; 17.9410 (169.56)	0.0844; -49.2315 (169.58)	0.0061; 22.3427 (169.42)
31	0.0196; -12.9549 (170.30)	0.0083; 2.7452 (167.87)	0.0696; 21.8550 (168.88)	0.0005; -0.6427 (168.73)	0.0663; 16.5317 (168.69)
32	0.0040; -0.6175 (170.12)	0.0084; -2.7226 (167.25)	0.0005; 0.1886 (168.75)	0.0015; 0.0797 (168.62)	0.0194; -49.5434 (168.03)
33	0.0003; 2.6206 (169.22)	0.0842; 4.7018 (166.10)	0.0030; 0.7728 (167.73)	0.0117; -7.4210 (168.06)	0.0104; -14.6432 (167.88)
34	0.0062; -13.8459 (168.61)	0.0177; 14.7758 (166.00)	0.0168; -36.9035 (167.67)	0.0016; -3.0381 (167.50)	0.0382; -55.5874 (167.47)
35	0.0058; 14.7843 (167.60)	0.0312; 0.1159 (165.72)	0.0283; 40.7153 (167.64)	0.0010; -0.4475 (166.86)	0.0485; 11.8895 (167.42)
36	0.0031; -9.3719 (167.28)	0.0048; -3.2273 (165.40)	0.0036; 1.1428 (166.23)	0.0011; 0.7172 (166.01)	0.0170; 7.4816 (166.63)
37	0.0292; -8.6149 (166.58)	0.0093; 10.8056 (164.27)	0.0056; -7.9964 (165.82)	0.0071; 5.5006 (165.35)	0.0011; 2.4814 (165.65)
38	0.0519; -60.0623 (166.03)	0.1290; -20.0242 (163.46)	0.0046; 1.5586 (165.28)	0.0099; 19.5203 (163.89)	0.0022; -11.1012 (165.21)
39	0.0135; -40.8999 (165.77)	0.0091; 19.4347 (163.17)	0.0023; -11.7767 (164.78)	0.0067; 1.4228 (163.39)	0.0005; -0.0644 (164.85)
40	0.0081; 13.6188 (165.52)	0.0044; 1.8938 (162.69)	0.0057; 0.7762 (163.29)	0.0095; -6.5038 (163.20)	0.0035; 10.0634 (164.76)
41	0.0546; 33.9114 (165.06)	0.0011; 1.9464 (162.57)	0.0033; 3.0542 (163.20)	0.0028; -1.3188 (162.11)	0.0922; 22.8822 (163.95)
42	0.0193; 3.6448 (164.92)	0.0116; 15.4935 (162.31)	0.0024; -0.8194 (162.96)	0.0008; 1.7129 (161.95)	0.0164; -7.9617 (163.70)
43	0.0254; 1.9331 (164.05)	0.0205; -13.8923 (162.17)	0.0014; -1.3594 (162.35)	0.0004; -1.4509 (161.91)	0.0348; -11.5368 (163.49)
44	0.0530; 2.5071 (163.70)	0.0318; -16.8302 (161.36)	0.0073; 3.7870 (161.63)	0.0094; 1.2164 (161.83)	0.0052; 3.7840 (163.29)
45	0.0214; -1.4965 (163.56)	0.0005; -0.8851 (161.11)	0.0041; 2.4970 (161.16)	0.0014; 1.4662 (161.00)	0.0072; 10.4075 (162.33)
46	0.0070; -5.7965 (163.18)	0.0157; -12.6384 (160.70)	0.0009; -0.0212 (160.41)	0.0008; -4.4681 (160.46)	0.0260; 28.8343 (161.91)
47	0.0150; 17.1018 (162.94)	0.0062; 8.8510 (160.38)	0.0156; 5.8066 (160.27)	0.0129; -10.0120 (159.79)	0.0177; -13.9870 (161.80)
48	0.0005; -1.7943 (161.75)	0.0008; -3.2938 (160.31)	0.0088; -5.4895 (159.89)	0.0031; -17.8106 (159.62)	0.0065; -13.9344 (161.15)
49	0.0057; -12.1226 (161.70)	0.0027; -2.5105 (159.83)	0.0289; 13.1730 (159.66)	0.0295; 8.2213 (158.91)	0.0022; -0.6190 (160.47)
50	0.0083; 4.9269 (161.21)	0.0067; 2.4735 (159.54)	0.0069; 12.8462 (158.95)	0.0048; 11.1890 (158.55)	0.0116; 0.8256 (160.37)

Figure S1. Preparation of one of the sensing surfaces for the developed assay: blocking of the substrate-binding site of SMYD3 with a tight-binding inhibitor EPZ031686. Injection of 1 μM of EPZ031686 was performed in an interactive run mode, with a standard "Inject" command, the data is unreferenced. Baseline level increment of 58 RU corresponds to saturation of the corresponding binding site. Theoretical increment (R_{max}) for a compound with a similar M_w and SMYD3 immobilization level of approx. 10000 RU is 100 RU, assuming 100% activity of the immobilized protein.

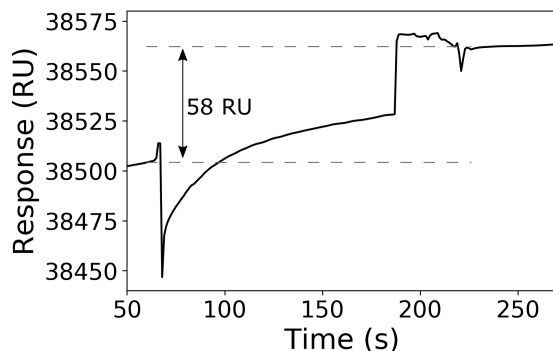


Figure S2. Characterization of the control compound, S-adenosyl-homocysteine (SAH). SAH was injected over SMYD3-functionalized biosensing surface in 2-fold serial dilution series, spanning concentration range 50–0.098 μM . Double-referenced interaction kinetic curves (black) were approximated with a 1:1 kinetic model (red), quantified interaction parameters: association rate constant $k_a = 5.4 \times 10^5 \text{ M}^{-1} \text{ s}^{-1}$, dissociation rate constant $k_d = 0.3 \text{ s}^{-1}$, dissociation constant $K_D = 560 \text{ nM}$. The data is referenced against surface with denatured SMYD3.

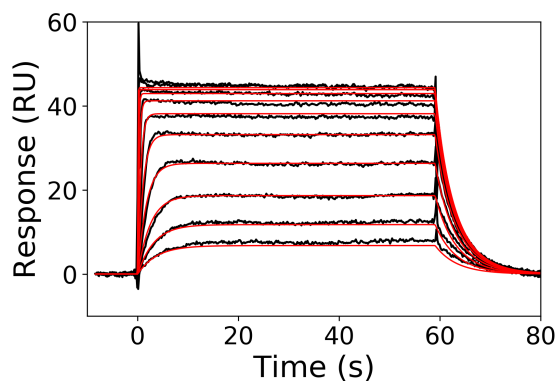


Figure S3. Kinetic curves of a fixed concentration injection of 25 μM SAH in the developed screening setup. (A) Unreferenced data. Responses from two flow cells are shown: reference flow cell containing immobilized SMYD3, denaturated with 6 M guanidine hydrochloride (black), analytical flow cell with SMYD3, immobilized at the same level (red). (B) Referenced sensorgram for the same data.

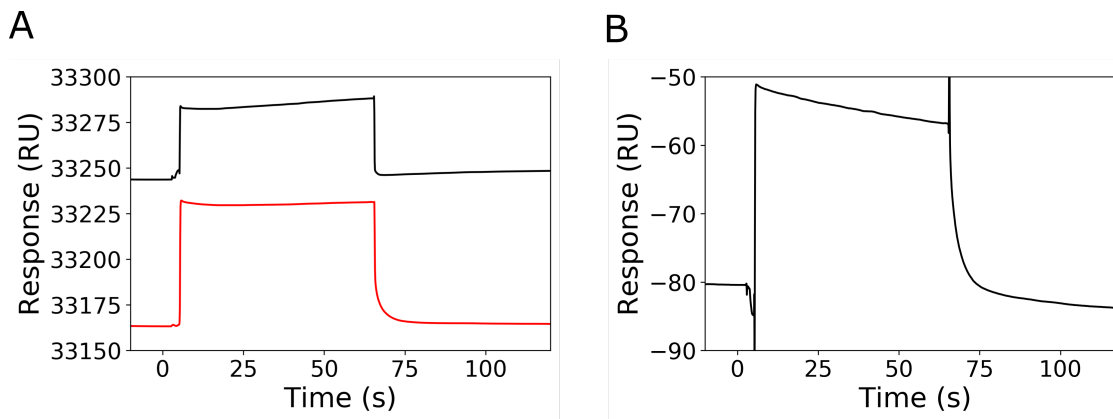


Figure S4. Interaction kinetic analysis of the screening hit, racemic dipiperodon (*rac*-diperodon) and immobilized SMYD3. The compound was injected in two-fold dilution series, spanning concentration range 100–0.4 μM . The data is referenced against surface with denatured SMYD3.

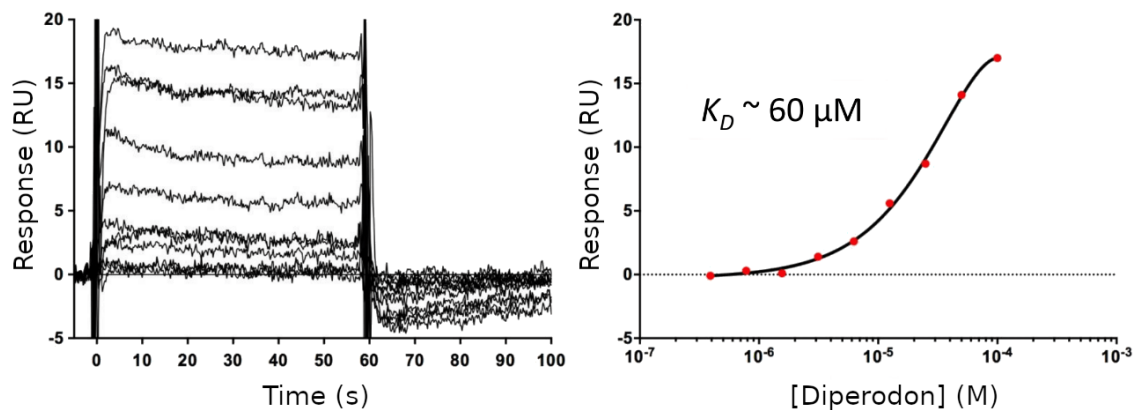


Figure S5. Interaction kinetic analysis of the screening hit, racemic dipiperodon (*rac*-diperodon) and immobilized SMYD3 with the substrate binding site, blocked with tight-binding SMYD3 inhibitor EPZ031686. The compound was injected in two-fold dilution series, spanning concentration range 100–0.4 μM . The data is referenced against surface with denatured SMYD3.

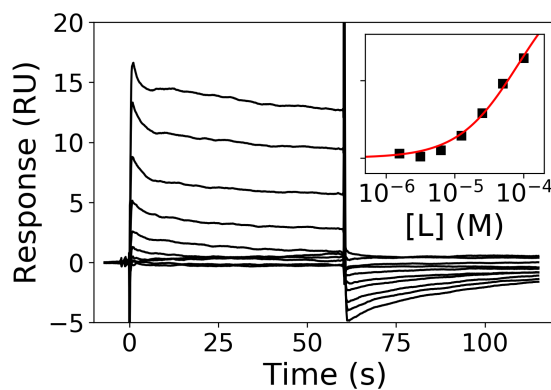


Figure S6. Geometries of the conformers of (*R*)-diperodon (conjugate acid form) having a relative electronic energy below 1 kcal mol⁻¹, as calculated by DFT optimization at the B97D/def2-TZVP/IEFPCM[H₂O] level: **c015** (12.03%), **c117** (7.69%), **c284** (5.50%), **c020** (5.15%), **c016** (4.89%), **c107** (4.77%), **c071** (4.74%), **c008** (3.61%), **c122** (3.13%), **c127** (2.79%), **c002** (2.79%), **c026** (2.55%), **c001** (2.40%), **c036** (2.38%), **c137** (2.28%).

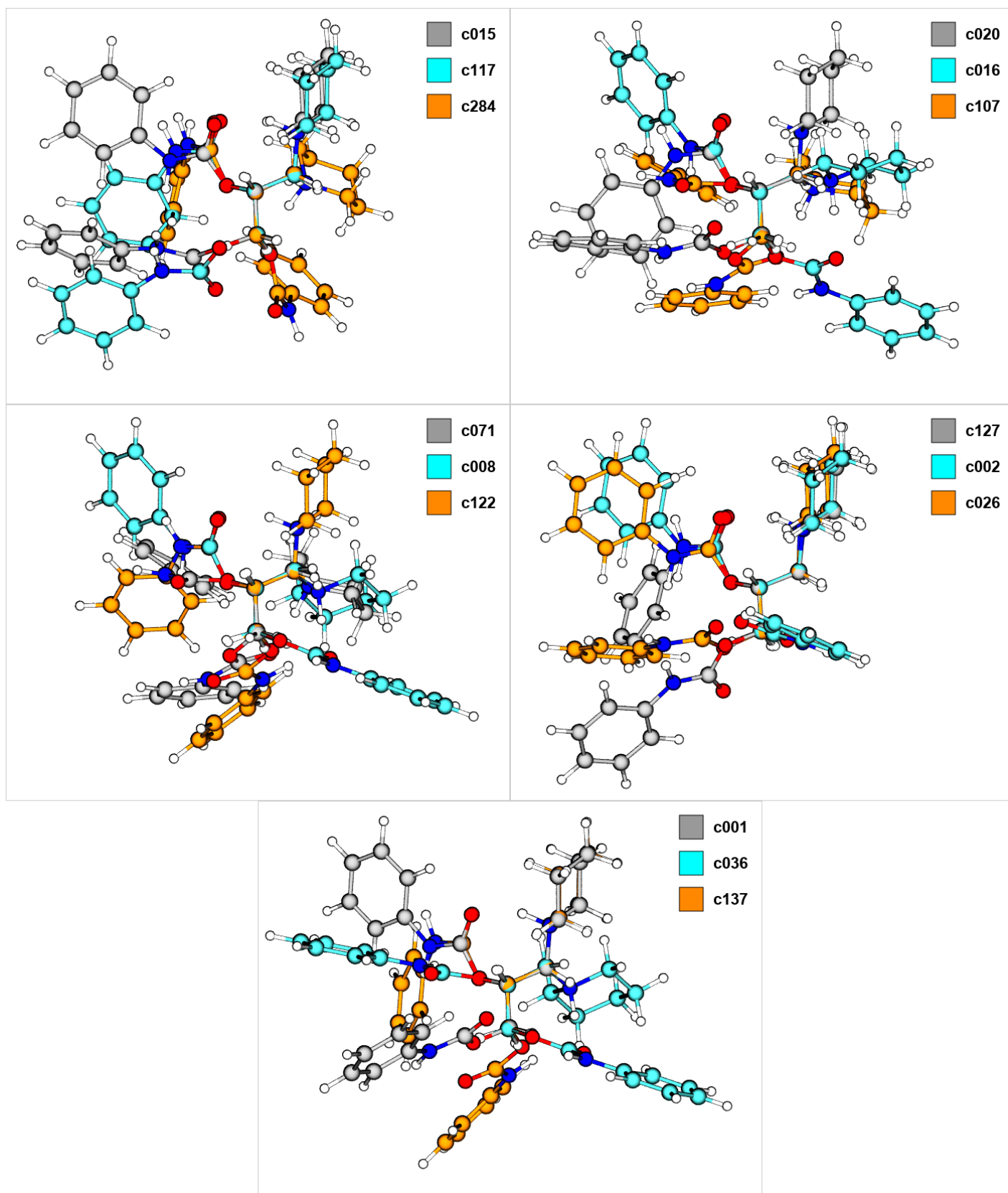


Figure S7. Comparison between the experimental UV spectrum of the first enantiomeric fraction of dipiperodon on the Lux Cellulose-2 column and the theoretical UV spectrum of (*R*)-diperodon (conjugate acid form), as calculated at the PBE0/def2-TZVP/IEFPCM[H₂O] level of theory after B97D/def2-TZVP/IEFPCM[H₂O] optimization.

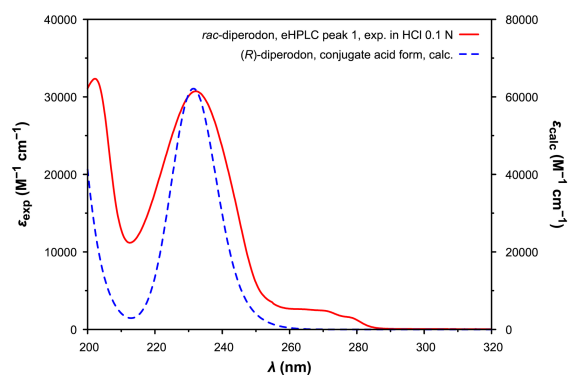


Figure S8. Deconvoluted mass spectra of MAP3K2_{249–274} peptide as substrate for SMYD3 methylation activity in absence (a) and presence (b) of 100 μM of *rac*-diperodon.

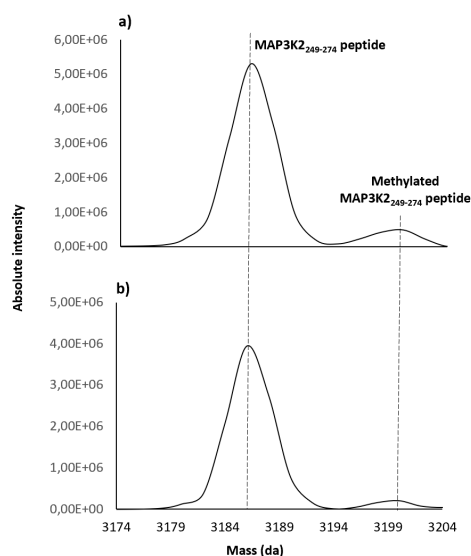


Table S3. Determination of inhibitory potency of dipiperodon, its individual enantiomers, the reconstituted racemic mixture, and the reference compound EPZ031686. *rac*-Diperodon, (*S*)-diperodon, (*R*)-diperodon and reconstituted *rac*-diperodon were assayed at 100 μM final concentration, while EPZ03168 was assayed at 0.63 μM final concentration, close to its *IC*₅₀.

	Methylation, %		Inhibition analysis, %	
	Experiment 1	Experiment 2	Inhibition 1	Inhibition 2
Control (2% DMSO)	8.06 ± 0.05	8.06 ± 0.09	-	-
<i>rac</i> -diperodon	4.36 ± 0.08	4.59 ± 0.10	45.9	43.0
(<i>S</i>)-diperodon	4.28 ± 0.02	4.45 ± 0.07	46.9	44.8
(<i>R</i>)-diperodon	4.74 ± 0.11	4.87 ± 0.01	41.2	39.6
reconstituted <i>rac</i> -diperodon	4.95 ± 0.06	4.77 ± 0.07	38.6	40.8
EPZ031686	3.71 ± 0.01	3.90 ± 0.04	54.0	51.6

Figure S9. Interaction of the C-terminal domain of HSP90 with SMYD3 in presence and absence of (*S*)-diperodon. (A) Single-concentration injections of 100 μ M of HSP90_{626–732} over surface-immobilized SMYD3 in presence (red) and absence (black) of 100 μ M of (*S*)-diperodon. (B) and (C): injection of SMYD3 dilution series over surface-immobilized GST-HSP90_{626–732} in presence (A) and absence (B) of 100 μ M of (*S*)-diperodon. For competition experiments, diperodon was added in every analytical injection including blank injections, reference surfaces contained no immobilized protein. No strong evidence of competition between diperodon and C-terminal domain of HSP90 for interaction with SMYD3 was observed.

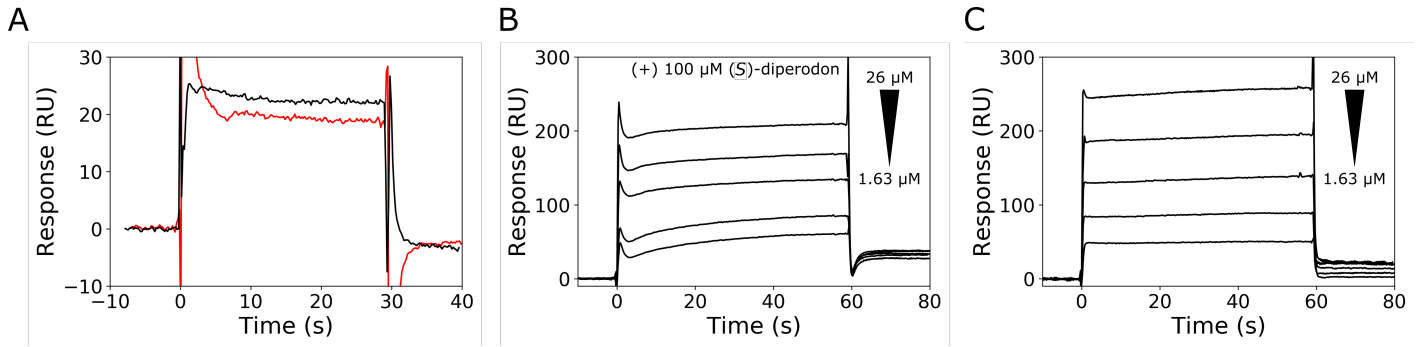


Figure S10. Original uncropped Western Blotting results, providing DMSO controls in the same membranes.

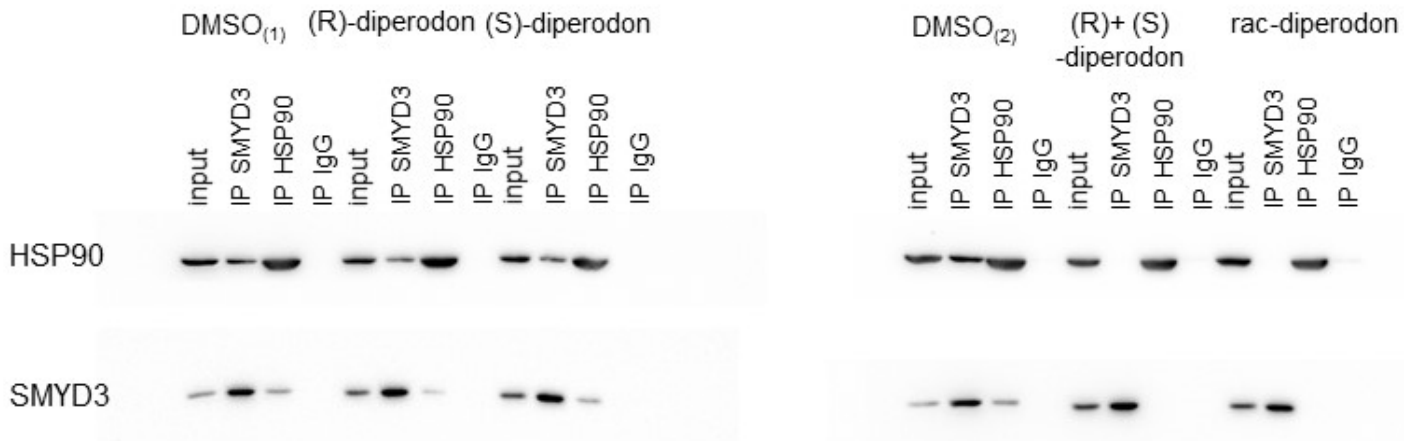


Table S4. Crystallographic data collection and model refinement statistics; values in parenthesis are given for the highest resolution shell.

PDB ID	Data collection	
	6Z2R	6YUH
Structure	SMYD3/(<i>S</i>)-diperodon	SMYD3/(<i>R</i>)-diperodon
Beamline	ESRF ID 29	MAX IV BioMAX
Wavelength, Å	0.976	0.976
Space group	<i>P</i> ₂ ₁ ₂ ₁	<i>P</i> ₂ ₁ ₂ ₁
Unit cell: a, b, c, Å	60.9, 66.05, 102.3	60.14, 66.28, 105.95
Resolution range, Å	44.78-1.61 (1.67-1.61)	105.95-1.93 (1.98-1.93)
Unique reflections	56675 (5553)	32606 (2145)
Multiplicity	5.1 (4.8)	9.3 (7.3)
Completeness, %	99.93 (99.69)	100.0 (100.0)
<i>R</i> _{merge}	0.07 (1.28)	0.192 (1.788)
CC _{1/2}	0.99 (0.48)	1 (0.52)
	Refinement	
Nr. refl. in test set	2730 (4.8 %)	1621 (5.0 %)
R/ <i>R</i> _{free} %/%	18.4/21.4	18.6/23.0
Nr. non-H atoms/average B-factor, Å ²		
protein	3470/27.1	3458/27.6
H ₂ O	526/37	256/31.5
ligand	52/44	50/42.3
Ramachandran plot, %		
favoured	98.58	98.58
allowed	1.42	1.42
outliners	0	0
RMS deviations		
bond length, Å	0.01	0.007
bond angles, °	1.41	0.82