

Supporting Information

Trends in antimalarial marine natural products: progresses, challenges and opportunities

Yang Hai ^{a,#}, Zi-Mu Cai ^{a,#}, Peng-Jie Li ^a, Mei-Yan Wei ^{a,b}, Chang-Yun Wang ^{a,d}, Yu-Cheng Gu ^{c,*}, Chang-Lun Shao ^{a,d,*}

^a Key Laboratory of Marine Drugs, The Ministry of Education of China, School of Medicine and Pharmacy, Ocean University of China, Qingdao 266003, China

^b College of Food Science and Engineering, Ocean University of China, Qingdao 266003, China

^c Syngenta Jealott's Hill International Research Centre, Bracknell, Berkshire, RG42 6EY, United Kingdom

^d Laboratory for Marine Drugs and Bioproducts, Qingdao National Laboratory for Marine Science and Technology, Qingdao 266200, China

Corresponding Author

*E-mail: shaochanglun@163.com and yucheng.gu@syngenta.com.

Author Contributions

These authors contributed equally to this work.

Table S1. Detailed information of compounds 1–361

No.	Name	origin	genus	IC ₅₀
1	plakortin	sponge	<i>Plakortis halichondrioides</i>	IC ₅₀ D6 = 0.87 μM IC ₅₀ W2 = 0.39 μM
2	dihydroplakortin	sponge	<i>Plakortis simplex</i>	IC ₅₀ D10 = 0.90 μM IC ₅₀ W2 = 0.43 μM
3	3-epiplakortin	sponge	<i>Plakortis simplex</i>	IC ₅₀ D6 = 1.03 μM IC ₅₀ W2 = 0.67 μM
4	plakortide F	sponge	<i>Plakortis</i> sp.	IC ₅₀ D6 = 1.35 μM IC ₅₀ W2 = 1.1 μM
5	plakortone G	sponge	<i>Plakortis</i> sp.	IC ₅₀ D6 = 15.1 μM IC ₅₀ W2 > 17.1 μM
6	plakortide I	sponge	<i>Plakortis</i> sp.	IC ₅₀ W2 = 2.01 μM
7	plakortide Q	sponge	<i>Plakortis simplex</i>	IC ₅₀ D6 = 1.0 μM IC ₅₀ W2 = 0.52 μM
8	plakortide R	sponge	<i>Plakinastrella mamillaris</i>	IC ₅₀ FcM29 = 5–50 μM
9	plakortide S	sponge	<i>Plakinastrella mamillaris</i>	IC ₅₀ FcM29 = 5–50 μM
10	plakortide T	sponge	<i>Plakinastrella mamillaris</i>	IC ₅₀ FcM29 = 5–50 μM
11	plakortide U	sponge	<i>Plakinastrella mamillaris</i>	IC ₅₀ FcM29 = 0.8 μM
12	haterumadioxin A	sponge	<i>Plakortis lita</i>	IC ₅₀ FcM29 = 5–50 μM
13	haterumadioxin A methyl ester	sponge	<i>Plakortis simplex</i>	IC ₅₀ D10 = 4.05 μM IC ₅₀ W2 = 2.7 μM
14	haterumadioxin B methyl ester	sponge	<i>Plakortis simplex</i>	IC ₅₀ D10 = 3.89 μM IC ₅₀ W2 = 2.91 μM
15	gracilioether A	sponge	<i>Agelas gracilis</i>	IC ₅₀ = 28.2 μM
16	gracilioether B	sponge	<i>Agelas gracilis</i>	IC ₅₀ = 1.56 μM
17	gracilioether C	sponge	<i>Agelas gracilis</i>	IC ₅₀ = 31.04 μM
18	gracilioether H	sponge	<i>Plakinastrella mamillaris</i>	IC ₅₀ FC29 = 3.3 μM
19	methyl 2-((3S,4S,6S)-4,6-diethyl-6-((S)-2-ethylhexyl)-1,2-dioxan-3-yl)acetate	sponge	<i>Plakortis simplex</i>	IC ₅₀ D10 = 6.18 μM IC ₅₀ W2 = 4.98 μM
20	methyl 2-((3R,4S,6S)-4,6-diethyl-6-((S)-2-ethylhexyl)-1,2-dioxan-3-yl)acetate	sponge	<i>Plakortis simplex</i>	IC ₅₀ W2 = 11.4 μM
21	methyl 2-((3R,4S,6S)-4-ethyl-6-((2S)-2-ethyl-4-methyloctyl)-	sponge	<i>Plakortis simplex</i>	IC ₅₀ D10 = 5.12 μM IC ₅₀ W2 = 4.10 μM

	6-methyl-1,2-dioxan-3-yl)acetate			
22	peroxyplakoric acid A ₃ methyl ester	sponge	<i>Plakortis</i> sp.	IC ₅₀ = 0.15 μM
23	peroxyplakoric acid B ₃ methyl ester	sponge	<i>Plakortis</i> sp.	IC ₅₀ = 0.12 μM
24	diacarnuperoxide M	sponge	<i>Diacarnus megaspinorhabdos</i> <i>a</i>	IC ₅₀ W2 = 4.2 μM IC ₅₀ D6 = 5.6 μM
25	diacarnuperoxide N	sponge	<i>Diacarnus megaspinorhabdos</i> <i>a</i>	IC ₅₀ W2 = 3.0 μM IC ₅₀ D6 = 6.6 μM
26	(+)-2,3,6-epihurghaperoxide	sponge	<i>Diacarnus megaspinorhabdos</i> <i>a</i>	IC ₅₀ W2 = 1.6 μM IC ₅₀ D6 = 2.2 μM
27	(+)-2,3,6-epihurghaperoxide acid	sponge	<i>Diacarnus megaspinorhabdos</i> <i>a</i>	IC ₅₀ W2 = 4.9 μM IC ₅₀ D6 = 7.3 μM
28	chaetoxanthone A	fungus	<i>Chaetomium</i> sp.	IC ₅₀ K1= 9.41 μM
29	chaetoxanthone B	fungus	<i>Chaetomium</i> sp.	IC ₅₀ K1= 1.41 μM
30	chaetoxanthone C	fungus	<i>Chaetomium</i> sp.	IC ₅₀ K1= 10.25 μM
31	trioxacarcin A	actinomycete	<i>Streptomyces</i> sp.	IC ₅₀ K1= 1.83 nM IC ₅₀ NF54 = 1.71 nM
32	trioxacarcin B	actinomycete	<i>Streptomyces</i> sp.	IC ₅₀ K1= 1.13 μM IC ₅₀ NF54 = 0.91 μM
33	trioxacarcin D	actinomycete	<i>Streptomyces</i> sp.	IC ₅₀ K1= 2.76 nM IC ₅₀ NF54 = 2.04 nM
34	marilone A	fungus	<i>Stachylidium</i> sp.	IC ₅₀ = 12.1 μM
35	bromophycoic acid A	red alga	<i>Callophyicus</i> sp.	IC ₅₀ 3D7 = 30.7 μM
36	bromophycoic acid B	red alga	<i>Callophyicus</i> sp.	IC ₅₀ 3D7 = 41.3 μM
37	bromophycoic acid C	red alga	<i>Callophyicus</i> sp.	IC ₅₀ 3D7 = 8.7 μM
38	bromophycoic acid D	red alga	<i>Callophyicus</i> sp.	IC ₅₀ 3D7 = 27 μM
39	malyngolide dimer	cyanobacterium	<i>Lyngbya majuscula</i>	IC ₅₀ W2 = 19 μM
40	lithanoside	red alga	<i>Hydrolithon reinboldii</i>	IC ₅₀ = 72 μM
41	palmarumycin P1	fungi	/	IC ₅₀ = 2.36 μM
42	diacarperoxide H	sponge	<i>Diacarnus megaspinorhabdos</i> <i>a</i>	IC ₅₀ D6 = 12.9 μM
43	diacarperoxide I	sponge	<i>Diacarnus megaspinorhabdos</i> <i>a</i>	IC ₅₀ D6 = 4.8 μM IC ₅₀ W2 = 7.9 μM

44	diacarperoxide J	sponge	<i>Diacarnus megaspinorhabdos a</i>	IC_{50} D6 = 1.8 μM IC_{50} W2 = 1.6 μM
45	5-carboxymellein	fungus	<i>Halorosellinia oceanica</i>	IC_{50} = 18.01 μM
46	nodulisporicid A	fungus	<i>Nodulisprium</i> sp.	IC_{50} = 1–10 μM
47	vermelhotin	fungus	<i>Nodulisprium</i> sp.	IC_{50} = 1–10 μM
48	pseudopyronine A	bacteria	<i>Pseudomonas</i> sp.	IC_{50} K1 = 55.94 μM
49	pseudopyronine B	bacteria	<i>Pseudomonas</i> sp.	IC_{50} K1 = 48.26 μM
50	actinosporin E	bacteria	<i>Actinokineospora spheciospongiae</i> and <i>Rhodococcus</i> sp.	IC_{50} 3D7 = 0.28 μM
51	actinosporin H	bacteria	<i>Actinokineospora spheciospongiae</i> and <i>Rhodococcus</i> sp.	IC_{50} 3D7 = 27.03 μM
52	actinosporin G	bacteria	<i>Actinokineospora spheciospongiae</i> and <i>Rhodococcus</i> sp.	IC_{50} 3D7 = 30.21 μM
53	tetragulol	bacteria	<i>Actinokineospora spheciospongiae</i> and <i>Rhodococcus</i> sp.	IC_{50} 3D7 = 31.9 μM
54	capillasterquinone B	bacteria	<i>Actinokineospora spheciospongiae</i> and <i>Rhodococcus</i> sp.	IC_{50} 3D7 = 29.29 μM
55	dicerandrol D	fungi	<i>Diaporthe</i> sp.	IC_{50} 3D7 = 0.6 μM
56	alternarlactone A	fungus	<i>Alternaria alternata</i>	IC_{50} NF54 = 5.9 μM
57	alternarlactone B	fungus	<i>Alternaria alternata</i>	IC_{50} NF54 = 9.7 μM
58	alisiaquinone A	sponge	undescribed	IC_{50} FcMC29 = 8.5 μM IC_{50} FcB1 = 7.4 μM IC_{50} F32C = 9.1 μM
59	alisiaquinone B	sponge	undescribed	IC_{50} FcMC29 = 2.6 μM IC_{50} FcB1 = 8.4 μM IC_{50} F32C = 7.1 μM
60	alisiaquinone C	sponge	undescribed	IC_{50} FcMC29 = 0.08 μM IC_{50} FcB1 = 0.21 μM IC_{50} F32C = 0.15 μM

61	alisiaquinol	sponge	undescribed	IC_{50} FcMC29 = 7.9 μM IC_{50} FcB1 = 6.4 μM IC_{50} F32C = 9.9 μM
62	kallolide A	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 39.6 μM
63	kallolide D	sea plumes	<i>Pseudopterogorgia bipinnata</i>	IC_{50} W2 = 30.6 μM
64	kallolide F	sea plumes	<i>Pseudopterogorgia bipinnata</i>	IC_{50} W2 = 52.8 μM
65	kallolide G	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 83.3 μM
66	kallolide H	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 41.5 μM
67	kallolide I	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 57.2 μM
68	gersemolide	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 21.3 μM
69	gersolide	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 45.7 μM
70	pinnatin B	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 23.3 μM
71	pinnatin D	sea plumes	<i>Pseudopterogorgia kallos</i>	IC_{50} W2 = 43.6 μM
72	monamphilectine A	sponge	<i>Hymeniacidon sp.</i>	IC_{50} W2 = 0.6 μM
73	monamphilectine B	sponge	<i>Svenzea flava</i>	IC_{50} 3D7 = 44.5 nM
74	monamphilectine C	sponge	<i>Svenzea flava</i>	IC_{50} 3D7 = 43.3 nM
75	8,15-diisocyano-11(20)-amphilectene [(-)-DINCA]	sponge	<i>Svenzea flava</i>	IC_{50} 3D7 = 40 nM
76	briarellin D	gorgonian	<i>Briareum polyanthes</i>	IC_{50} W2 = 32 μM
77	briarellin D hydroperoxide	gorgonian	<i>Briareum polyanthes</i>	IC_{50} W2 = 21 μM
78	briarellin K	gorgonian	<i>Briareum polyanthes</i>	IC_{50} W2 = 38 μM
79	briarellin K hydroperoxide	gorgonian	<i>Briareum polyanthes</i>	IC_{50} W2 = 22 μM
80	briarellin L	gorgonian	<i>Briareum polyanthes</i>	IC_{50} W2 = 17 μM
81	briarellin M	gorgonian	<i>Briareum polyanthes</i>	IC_{50} W2 = 54 μM
82	briarellin O	gorgonian	<i>Briareum polyanthes</i>	IC_{50} W2 = 55 μM

83	briarellin P	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 31 µM
84	briarellin Q	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 6.8 µM
85	Briarellin R	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 37 µM
86	seco-briarellin R	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 44 µM
87	asbestinin-10	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 24 µM
88	asbestinin-20	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 34 µM
89	6-epi-asbestinin-20	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 45 µM
90	asbestinin-21	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 46 µM
91	11-Acetoxy-4-deacetoxyasbestinin F	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 33 µM
92	nor-asbestinin A	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 39 µM
93	asbestinin-24	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 41 µM
94	asbestinin-26	gorgonian	<i>Briareum polyanthes</i>	IC ₅₀ W2 = 48 µM
95	methyl diacarnoate A	sponge	<i>Diacarnus levii</i>	IC ₅₀ HB3 = 7.1 µM IC ₅₀ F32 = 0.01 µM IC ₅₀ FCR3 = 21 µM
96	methyl 3-epinuapapuanoate	sponge	<i>Diacarnus levii</i>	IC ₅₀ HB3 = 7.4 µM IC ₅₀ FCR3 = 7.2 µM
97	2-epimukubulin benzyl ester	sponge	<i>Diacarnus levii</i>	IC ₅₀ F32 = 124 µM IC ₅₀ D2 = 73 µM
98	ent-muquibilin benzyl ester	sponge	<i>Diacarnus levii</i>	IC ₅₀ F32 = 73 µM IC ₅₀ D2 = 62 µM
99	deoxydiacarnoate B benzyl ester	sponge	<i>Diacarnus levii</i>	IC ₅₀ F32 = 11 µM IC ₅₀ D2 = 6.4 µM
100	(-)-(1S,5S,8R)-2-Isocyanoclovane	nudibranch	<i>Phyllidia ocellata</i>	IC ₅₀ Dd2 = 0.36 µM IC ₅₀ 3D7 = 0.30 µM
101	(-)-(1S,5S,8R)-2-Isocyanoclovane	nudibranch	<i>Phyllidia ocellata</i>	IC ₅₀ Dd2 = 0.83 µM IC ₅₀ 3D7 = 0.29 µM
102	4,5-epi-10-isocyanoisodauc-6-ene	nudibranch	<i>Phyllidia ocellata</i>	IC ₅₀ Dd2 = 0.87 µM IC ₅₀ 3D7 = 0.26 µM
103	(1S,3S,4R,7S,8S,11S,12S,13S,15R,20R)-7-	sponge	<i>Cymbastela hooperi</i>	IC ₅₀ FCR3F86 = 0.58 µM

	formamido-20-isocyanoisocycloamphilectane			
104	(1S,3S,4R,7S,8S,11S,12S,13S, 15R,20R)-7,20-diformamidoisocycloamphilectane	sponge	<i>Cymbastela hooperi</i>	IC ₅₀ FCR3F86 = 41.08 μM
105	cembradiene 1	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 63.49 μM
106	cembradiene 2	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 44.88 μM
107	cembradiene4	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 40.18 μM
108	bielschowskysin	gorgonian octocoral	<i>Pseudopterogorgia kallos</i> sp.	IC ₅₀ = 23.69 μM
109	drechslerine E	fungus	<i>Drechslera dematioidea</i>	IC ₅₀ K1 = 5.9 μM IC ₅₀ NF54 = 3.65 μM
110	drechslerine G	fungus	<i>Drechslera dematioidea</i>	IC ₅₀ K1 = 2.9 μM IC ₅₀ NF54 = 4.24 μM
111	sinuketal	soft coral	<i>Sinularia</i> sp.	IC ₅₀ 3D7 = 80 μM
112	2,5-didehydroxy-6-methylembelin	mangrove	<i>Aegiceras corniculatum</i>	IC ₅₀ 3D7 = 25.95 μM IC ₅₀ K1 = 21.82 μM
113	dolabellane 1	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 13.2 μM
114	dolabellane 2	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 50.0 μM
115	dolabellane 3	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 20.3 μM
116	dolabellane 4	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 36.4 μM
117	dolabellane 5	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 36.1 μM
118	dolabellane 6	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 50.3 μM
119	dolabellane 7	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 37.7 μM
120	dolabellane 9	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 9.4 μM
121	dolabellane 10	octocoral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 40.9 μM
122	8-isocyanato-15-formamidoamphilect-11(20)-ene	sponge	<i>Styliissa cf. massa</i>	IC ₅₀ K1 = 8.85 μM
123	8-isothiocyanato-15-formamidoamphilect-11(20)-ene	sponge	<i>Styliissa cf. massa</i>	IC ₅₀ K1 = 8.07 μM
124	halorosellinic acid	fungus	<i>Halorosellinia oceanica</i>	IC ₅₀ = 30.08 μM
125	cytochalasin Q	fungus	<i>Halorosellinia oceanica</i>	IC ₅₀ = 34.47 μM
126	(8R*)-8-bromo-10-epi-β-snyderol [(1'R*,3'R*,5'R*)-5-(3,5'dibromo-2',2'-	red alga	<i>Laurencia obtusa</i>	IC ₅₀ D6 = 7.14 μM IC ₅₀ W2 = 10.58 μM

	dimethyl-6'-methylenecyclohexyl)-3-methylpent-1-en-3-ol]			
127	caucanolide A	gorgonian coral	<i>Pseudopterogorgia bipinnata</i>	IC ₅₀ W2 = 45.43 μM
128	caucanolide D	gorgonian coral	<i>Pseudopterogorgia bipinnata</i>	IC ₅₀ W2 = 40.09 μM
129	(3S,5aS,6S,9aR,9bR)-6-hydroxy-3,5a,9a-trimethyl-9-methylenedecahydronaphtho[1,2-b]furan-2(3H)-one	gorgonian coral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 53 μM
130	(3S,7S,11aR,E)-7-hydroxy-3,10-dimethyl-6-methylene-3a,4,5,6,7,8,9,11a-octahydrocyclodeca[b]furan-2(3H)-one	gorgonian coral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 71.95 μM
131	(1S,2R,4aS,5S,8aR)-2-acetyl-5-hydroxy-4a-methyl-8-methylenedecahydronaphthalen-1-yl (E)-4-hydroxy-4-methylpent-2-enoate	gorgonian coral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 28.55 μM
132	(1S,6S,10R,E)-10-acetyl-6-hydroxy-3-methyl-7-methylenecyclodec-2-en-1-yl (E)-4-hydroxy-4-methylpent-2-enoate	gorgonian coral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 39.98 μM
133	(1S,10R,E)-10-acetyl-3-methyl-7-methylene-6-oxocyclodec-2-en-1-yl (E)-4-hydroxy-4-methylpent-2-enoate	gorgonian coral	<i>Eunicea</i> sp.	IC ₅₀ W2 = 45.95 μM
134	8α,11-dihydroxypachydictyo 1 A	brown alga	<i>Dictyota</i> sp.	IC ₅₀ K1 = 9.25 μM

135	fucoxanthin	brown alga	<i>Dictyota</i> sp.	IC ₅₀ K1 = 4.40 µM
136	aberrarone	gorgonian	<i>Pseudopterogorgia elisabethae</i>	IC ₅₀ W2 = 30.29 µM
137	elisapterosin F	gorgonian	<i>Pseudopterogorgia elisabethae</i>	IC ₅₀ W2 = 51.7 µM
138	(2E,3E,5R,6S)-5,6-dichloro-2-(chloromethylene)-6-methylocta-3,7-dienal	red alga	<i>Plocamium cornutum</i>	IC ₅₀ D10 = 27 µM
139	(1E,3E,5R,6S)-1,5,6-trichloro-2-(dichloromethyl)-6-methylocta-1,3,7-triene	red alga	<i>Plocamium cornutum</i>	IC ₅₀ D10 = 16 µM
140	(5R,6S,E)-5,6-dichloro-2-(dichloromethyl)-6-methylocta-1,3,7-triene	red alga	<i>Plocamium cornutum</i>	IC ₅₀ D10 = 17 µM
141	(1Z,3E,5S*,6S*)-1-bromo-5,6-dichloro-2,6-dimethyl-octa-1,3,7-triene	red alga	<i>Plocamium cornutum</i>	IC ₅₀ D10 = 230 µM
142	(1Z,3E,5R*,6S*)-1-bromo-5,6-dichloro-2,6-dimethyl-octa-1,3,7-triene	red alga	<i>Plocamium cornutum</i>	IC ₅₀ D10 = 210 µM
143	(-)-9-isothiocyanatopupukeanane	sponge	<i>Axinyssa</i> sp.	IC ₅₀ D6 = 12.5 µM IC ₅₀ W2 = 3.38 µM
144	(-)-9-isocyanopupukeanane	sponge	<i>Axinyssa</i> sp.	IC ₅₀ D6 = 10.9 µM IC ₅₀ W2 = 6.96 µM
145	(-)-2-thiocyanatoneopupukeanane	sponge	<i>Axinyssa</i> sp.	IC ₅₀ D6 = 17.86 µM IC ₅₀ W2 = 6.92 µM
146	(-)epipolasin-A	sponge	<i>Axinyssa</i> sp.	IC ₅₀ D6 = 21.28 µM IC ₅₀ W2 = 21.09 µM
147	10-epikalihinol I	sponge	<i>Acanthella</i> sp.	EC ₅₀ >1.8 µM
148	5,10-bisisothiocyanatokalihinol G	sponge	<i>Acanthella</i> sp.	EC ₅₀ = 2.6 µM
149	kalihinol A	sponge	<i>Acanthella</i> sp.	EC ₅₀ = 1.2 nM
150	kalihinen	sponge	<i>Acanthella</i> sp.	EC ₅₀ = 10 nM
151	6-hydroxykalihinene	sponge	<i>Acanthella</i> sp.	EC ₅₀ = 80 nM

152	15-Oxopuupehenol	sponge	<i>Hyrtios</i> spp.	IC ₅₀ D6 = 5.81 μM IC ₅₀ W2 = 3.78 μM
153	axisonitile-3	sponge	<i>Acanthella klethra</i>	undescribed
154	sandresolide C	gorgonian	<i>Pseudopterogorgia elisabethae</i>	IC ₅₀ W2 = 56.22 μM
155	peyssonoside A	red alga	<i>Peyssonnelia</i> sp.	EC ₅₀ = 2.4 μM
156	peyssonoside B	red alga	<i>Peyssonnelia</i> sp.	EC ₅₀ = 5.8 μM
157	1-((5R,6S)-3,6-dimethyl-6-vinyl-4,5,6,7-tetrahydrobenzofuran-5-yl)vinyl acetate	octocoral	<i>Muricea austera</i>	IC ₅₀ W2 = 42 μM
158	manzamine A	sponge	<i>Xestospongia ashmorica</i>	IC ₅₀ D6 = 8.21 nM IC ₅₀ W2 = 14.6 nM
159	manzamine E	sponge	<i>Xestospongia ashmorica</i>	IC ₅₀ D6 = 6.02 μM IC ₅₀ W2 = 8.43 μM
160	manzamine F	sponge	<i>Xestospongia ashmorica</i>	IC ₅₀ D6 = 1.34 μM IC ₅₀ W2 = 2.93 μM
161	manzamine J	sponge	<i>Xestospongia ashmorica</i>	IC ₅₀ D6 = 2.36 μM IC ₅₀ W2 = 1.36 μM
162	manzamine X	sponge	<i>Xestospongia</i> sp.	IC ₅₀ D6 = 1.64 μM IC ₅₀ W2 = 3.45 μM
163	manzamine Y	sponge	<i>Haliclona</i> sp.	IC ₅₀ D6 = 0.74 μM IC ₅₀ W2 = 1.51 μM
164	(+)-8-hydroxymanzamine A	sponge	<i>Acanthostrongylop hora</i>	IC ₅₀ D6 = 0.01 μM IC ₅₀ W2 = 0.01 μM
165	manzamine A N-oxide	sponge	<i>Xestospongia ashmorica</i>	IC ₅₀ D6 = 0.02 μM IC ₅₀ W2 = 0.02 μM
166	3,4-dihydromanzamine A N-oxide	sponge	<i>Xestospongia ashmorica</i>	IC ₅₀ D6 = 2.9 μM IC ₅₀ W2 = 6.7 μM
167	3,4-dihydromanzamine J N-oxide	sponge	<i>Amphimedon</i> sp.	IC ₅₀ W2 = 12.7 μM
168	12,34-oxamanzamine A	sponge	<i>Petrosiidae genus</i>	IC ₅₀ D6 = 8.71 μM
169	ent-8-hydroxymanzamine A	sponge	<i>Prianos</i> sp.	IC ₅₀ < 1 μM
170	6-hydroxymanzamine E	sponge	<i>Acanthostrongylop hora genus</i>	IC ₅₀ D6 = 1.34 μM IC ₅₀ W2 = 1.50 μM
171	ent-12,34-oxamanzamine F	sponge	<i>Acanthostrongylop hora</i>	IC ₅₀ D6 = 1.45 μM IC ₅₀ W2 = 1.90 μM
172	ent-manzamine F	sponge	<i>Prianos</i> sp.	undescribed
173	6-deoxymanzamine X	sponge	<i>Xestospongia ash</i>	IC ₅₀ D6 = 2.30 μM

			<i>morica</i>	IC_{50} W2 = 2.48 μM
174	manzamine Y	sponge	<i>Xestospongia</i> sp.	IC_{50} D6 = 0.74 μM IC_{50} W2 = 1.51 μM
175	neo-kauluamine	sponge	<i>Pachypellina</i> sp.	IC_{50} D6 = 1.46 μM IC_{50} W2 = 2.41 μM
176	zamamidine A	sponge	<i>Amphimedon</i> sp.	IC_{50} K1 = 9.57 μM
177	zamamidine C	sponge	<i>Amphimedon</i> sp.	IC_{50} K1 = 0.78 μM
178	ircinol A	sponge	<i>Acanthostrongylophora</i>	IC_{50} D6 = 5.82 μM IC_{50} W2 = 7.52 μM
179	22(S)-hydroxyingamine A	sponge	<i>Petrosid Ng5 Sp5</i>	IC_{50} D6 = 0.47 μM IC_{50} W2 = 0.30 μM
180	dihydroingenamine D	sponge	<i>Petrosid Ng5 Sp5</i>	IC_{50} D6 = 0.18 μM IC_{50} W2 = 0.13 μM
181	tsitsikammamine C	sponge	<i>Zyzya</i> sp.	IC_{50} Dd2 = 18 nM IC_{50} 3D7 = 13 nM
182	makaluvamine J	sponge	<i>Zyzya</i> sp.	IC_{50} Dd2 = 22 nM IC_{50} 3D7 = 25 nM
183	makaluvamine G	sponge	<i>Zyzya</i> sp.	IC_{50} Dd2 = 39 nM IC_{50} 3D7 = 36 nM
184	makaluvamine L	sponge	<i>Zyzya</i> sp.	IC_{50} Dd2 = 21 nM IC_{50} 3D7 = 40 nM
185	thiaplakortone A	sponge	<i>Plakortis lita</i>	IC_{50} 3D7 = 51 nM IC_{50} Dd2 = 6.6 nM
186	thiaplakortone B	sponge	<i>Plakortis lita</i>	IC_{50} 3D7 = 650 nM IC_{50} Dd2 = 92 nM
187	thiaplakortone C	sponge	<i>Plakortis lita</i>	IC_{50} 3D7 = 309 nM IC_{50} Dd2 = 171 nM
188	thiaplakortone D	sponge	<i>Plakortis lita</i>	IC_{50} 3D7 = 279 nM IC_{50} Dd2 = 159 nM
189	marineosin A	actinomycete	<i>Streptomyces</i> sp.	IC_{50} D6 = 138 nM IC_{50} Dd2 = 127 nM IC_{50} 7G7= 199 nM
190	premarineosin A	actinomycete	<i>Streptomyces</i> sp.	IC_{50} D6 = 2.3 nM IC_{50} Dd2 = 12 nM IC_{50} 7G7= 1.5 nM
191	16-ketopremarineosin A	actinomycete	<i>Streptomyces</i> sp.	IC_{50} D6 = 138 nM IC_{50} Dd2 = 127 nM IC_{50} 7G7= 199 nM
192	merobatzelladine A	sponge	<i>Monanchora</i> sp.	IC_{50} K1 = 1.33 μM
193	merobatzelladine B	sponge	<i>Monanchora</i> sp.	IC_{50} K1 = 3.16 μM
194	neopetrosiamine A	sponge	<i>Neopetrosia proxima</i>	IC_{50} = 2.3 μM
195	(+)-7-	sponge	<i>Ancorina</i> sp.	IC_{50} Dd2 = 5.4 μM

	bromotryptargine			IC_{50} 3D7 = 3.5 μM
196	unguiculin A	sponge	<i>Monanchora unguiculata</i>	IC_{50} 3D7 = 12.89 μM
197	ptilomycalin E	sponge	<i>Monanchora unguiculata</i>	IC_{50} 3D7 = 0.35 μM
198	ptilomycalin F	sponge	<i>Monanchora unguiculata</i>	IC_{50} 3D7 = 0.23 μM
199	ptilomycalin G	sponge	<i>Monanchora unguiculata</i>	IC_{50} 3D7 = 0.46 μM compounds (199+200)
200	ptilomycalin H	sponge	<i>Monanchora unguiculata</i>	IC_{50} 3D7 = 0.46 μM compounds (199+200)
201	fromiamycalin	sponge	<i>Monanchora unguiculata</i>	IC_{50} 3D7 = 0.24 μM
202	marinacarboline A	actinomycete	<i>Marinactinospora thermotolerans</i>	IC_{50} Dd2 = 1.92 μM IC_{50} 3D7 = 36.03 μM
203	marinacarboline B	actinomycete	<i>Marinactinospora thermotolerans</i>	IC_{50} Dd2 = 15.59 μM IC_{50} 3D7 = 16.65 μM
204	marinacarboline C	actinomycete	<i>Marinactinospora thermotolerans</i>	IC_{50} Dd2 = 3.38 μM IC_{50} 3D7 = 3.09 μM
205	marinacarboline D	actinomycete	<i>Marinactinospora thermotolerans</i>	IC_{50} Dd2 = 3.59 μM IC_{50} 3D7 = 5.39 μM
206	13-N-demethyl-methylpendolmycin	actinomycete	<i>Marinactinospora thermotolerans</i>	IC_{50} Dd2 = 18.67 μM IC_{50} 3D7 = 20.75 μM
207	methylpendolmycin-14-O- α -glucoside	actinomycete	<i>Marinactinospora thermotolerans</i>	IC_{50} Dd2 = 5.03 μM IC_{50} 3D7 = 10.43 μM
208	agelasine J	sponge	<i>Agelas cf. mauritiana</i>	IC_{50} = 6.6 μM
209	agelasine K	sponge	<i>Agelas cf. mauritiana</i>	IC_{50} = 8.3 μM
210	agelasine L	sponge	<i>Agelas cf. mauritiana</i>	IC_{50} 3D7 = 18 μM
211	naseseazine C	actinomycete	<i>Streptomyces</i> sp.	IC_{50} = 3.52 μM
212	netamine O	sponge	<i>Biemna laboutei</i>	IC_{50} = 16.99 μM
213	netamine P	sponge	<i>Biemna laboutei</i>	IC_{50} = 32.62 μM
214	netamine Q	sponge	<i>Biemna laboutei</i>	IC_{50} = 8.35 μM
215	xestostreptin	actinomycete	<i>Streptomyces</i> sp.	IC_{50} Dd2 = 50 μM
216	farneside A	actinomycete	<i>Streptomyces</i> sp.	IC_{50} 3D7 = 69.3 μM
217	opacaline A	ascidian	<i>Pseudodistoma opacum</i>	IC_{50} K1 = 2.5 μM
218	opacaline B	ascidian	<i>Pseudodistoma opacum</i>	IC_{50} K1 = 4.5 μM
219	didemnidine A	ascidian	<i>Didemnum</i> sp.	IC_{50} K1 = 41 μM
220	didemnidine B	ascidian	<i>Didemnum</i> sp.	IC_{50} K1 = 15 μM

221	caulamidine A	bryozoan	<i>Caulibugula intermis</i>	IC ₅₀ D6 = 11.3 µM IC ₅₀ W2 = 8.3 µM
222	caulamidine B	bryozoan	<i>Caulibugula intermis</i>	IC ₅₀ D6 = 12 µM IC ₅₀ W2 = 12.9 µM
223	pustulosaisonitrile-1	nudibranch	<i>Phyllidiella pustulosa</i>	IC ₅₀ Dd2 = 1.54 µM IC ₅₀ 3D7 = 1.08 µM
224	7-bromo-N-hydroxyhomotryptagine	ascidian	<i>Pseudodistoma opacum</i>	IC ₅₀ FcB1 = 3.8 µM
225	(+)-(R)-eudistidine C	ascidian	<i>Eudistoma</i> sp.	IC ₅₀ D6 = 2.8 µM IC ₅₀ W2 = 1.5 µM
226	(-)-(S)eudistidine C	ascidian	<i>Eudistoma</i> sp.	IC ₅₀ D6 = 4.2 µM IC ₅₀ W2 = 2.5 µM
227	tumonic acid I	cyanobacterium	<i>Blennothrix cantharidosmum</i>	IC ₅₀ = 2 µM
228	cycloaplysinopsin C	hard coral	<i>Tubastraea</i> sp.	IC ₅₀ F32 = 2.7 µM IC ₅₀ FcB1 = 1.8 µM
229	netamine K	sponge	<i>Biemna laboutei</i>	IC ₅₀ = 2.4 µM
230	aplidiopsamine A	ascidian	<i>Aplidiopsis confluata</i>	IC ₅₀ Dd2 = 1.65 µM IC ₅₀ 3D7 = 1.47 µM
231	astepyrazinoxide	fungus	<i>Aspergillus terreus</i>	IC ₅₀ = 24.82 µM
232	astechrome	fungus	<i>Aspergillus terreus</i>	IC ₅₀ = 0.94 µM
233	hatsusamide A	fungus	<i>Penicillium steckii</i>	IC ₅₀ K1 = 27.2 µM IC ₅₀ FCR3 = 27.9 µM
234	tanzawaic acid B	fungus	<i>Penicillium steckii</i>	IC ₅₀ K1 = 78.5 µM IC ₅₀ FCR3 = 79.2 µM
235	psammaphlin A	sponge	<i>Aplysinella rhax</i>	IC ₅₀ 3D7 = 60 µM
236	psammaphlin D	sponge	<i>Aplysinella rhax</i>	IC ₅₀ 3D7 = 67 µM
237	bisaprasin	sponge	<i>Aplysinella rhax</i>	IC ₅₀ 3D7 = 29 µM
238	araplysillin I	sponge	<i>suberea ianthelliformis</i>	IC ₅₀ FCB1 = 4.5 µM IC ₅₀ 3D7 = 4.6 µM
239	Araplysillin N20-formamide	sponge	<i>suberea ianthelliformis</i>	IC ₅₀ FCB1 = 3.6 µM IC ₅₀ 3D7 = 7.0 µM
240	Araplysillin N20-hydroxyformamide	sponge	<i>suberea ianthelliformis</i>	IC ₅₀ FCB1 = 5.0 µM IC ₅₀ 3D7 = 4.1 µM
241	Araplysillin IV	sponge	<i>suberea ianthelliformis</i>	IC ₅₀ FCB1 = 27.6 µM
242	Araplysillin V	sponge	<i>suberea ianthelliformis</i>	IC ₅₀ FCB1 = 50.5 µM
243	Araplysillin VI	sponge	<i>suberea ianthelliformis</i>	IC ₅₀ FCB1 = 37.4 µM
244	Aerophobin I	sponge	<i>Suberea ianthelliformis</i>	IC ₅₀ FCB1 = 59.0 µM

245	Aerophobin II	sponge	<i>Suberea ianthelliformis</i>	IC_{50} FCB1 = 24.9 μM IC_{50} 3D7 = 19.9 μM
246	Purealidin Q	sponge	<i>Suberea ianthelliformis</i>	IC_{50} FCB1 = 3.6 μM
247	aerothionin	sponge	<i>Suberea ianthelliformis</i>	IC_{50} FCB1 = 3.4 μM IC_{50} 3D7 = 4.2 μM
248	aplysinone D	sponge	<i>Suberea ianthelliformis</i>	IC_{50} FCB1 = 1.0 μM IC_{50} 3D7 = 3.1 μM
249	11,19-Dideoxyfistularin 3	sponge	<i>Suberea ianthelliformis</i>	IC_{50} FCB1 = 2.1 μM IC_{50} 3D7 = 0.9 μM
250	11-Hydroxyfistularin 3	sponge	<i>Suberea ianthelliformis</i>	IC_{50} FCB1 = 2.1 μM IC_{50} 3D7 = 2.6 μM
251	ceratinadin E	sponge	<i>Pseudoceratina</i> sp.	IC_{50} K1 = 0.91 μM IC_{50} FCR3 = 0.68 μM
252	ceratinadin F	sponge	<i>Pseudoceratina</i> sp.	IC_{50} K1 > 8.31 μM
253	19-hydroxypsammaphysin E	sponge	<i>Aplysinella strongylata</i>	IC_{50} 3D7 = 6.4 μM
254	10-bromohomofascaplysinate A	Sponge	Undescribed	IC_{50} D6 = 4.6 nM IC_{50} W2 = 4.8 nM
255	10-bromofascaplysin	Sponge	Undescribed	IC_{50} D6 = 0.3 nM IC_{50} W2 = 0.26 nM
256	bromophycolide A	red alga	<i>Callophycus serratus</i>	IC_{50} = 0.9 μM
257	bromophycolide B	red alga	<i>Callophycus serratus</i>	IC_{50} = 4.8 μM
258	bromophycolide C	red alga	<i>Callophycus serratus</i>	IC_{50} = 56 μM
259	bromophycolide D	red alga	<i>Callophycus serratus</i>	IC_{50} = 0.3 μM
260	bromophycolide E	red alga	<i>Callophycus serratus</i>	IC_{50} = 0.8 μM
261	bromophycolide F	red alga	<i>Callophycus serratus</i>	IC_{50} = 18 μM
262	bromophycolide G	red alga	<i>Callophycus serratus</i>	IC_{50} = 14 μM
263	bromophycolide H	red alga	<i>Callophycus serratus</i>	IC_{50} = 0.9 μM
264	bromophycolide I	red alga	<i>Callophycus serratus</i>	IC_{50} = 2.5 μM
265	bromophycolide J	red alga	<i>Callophycus serratus</i>	IC_{50} = 2.7 μM
266	bromophycolide K	red alga	<i>Callophycus</i>	IC_{50} = 44 μM

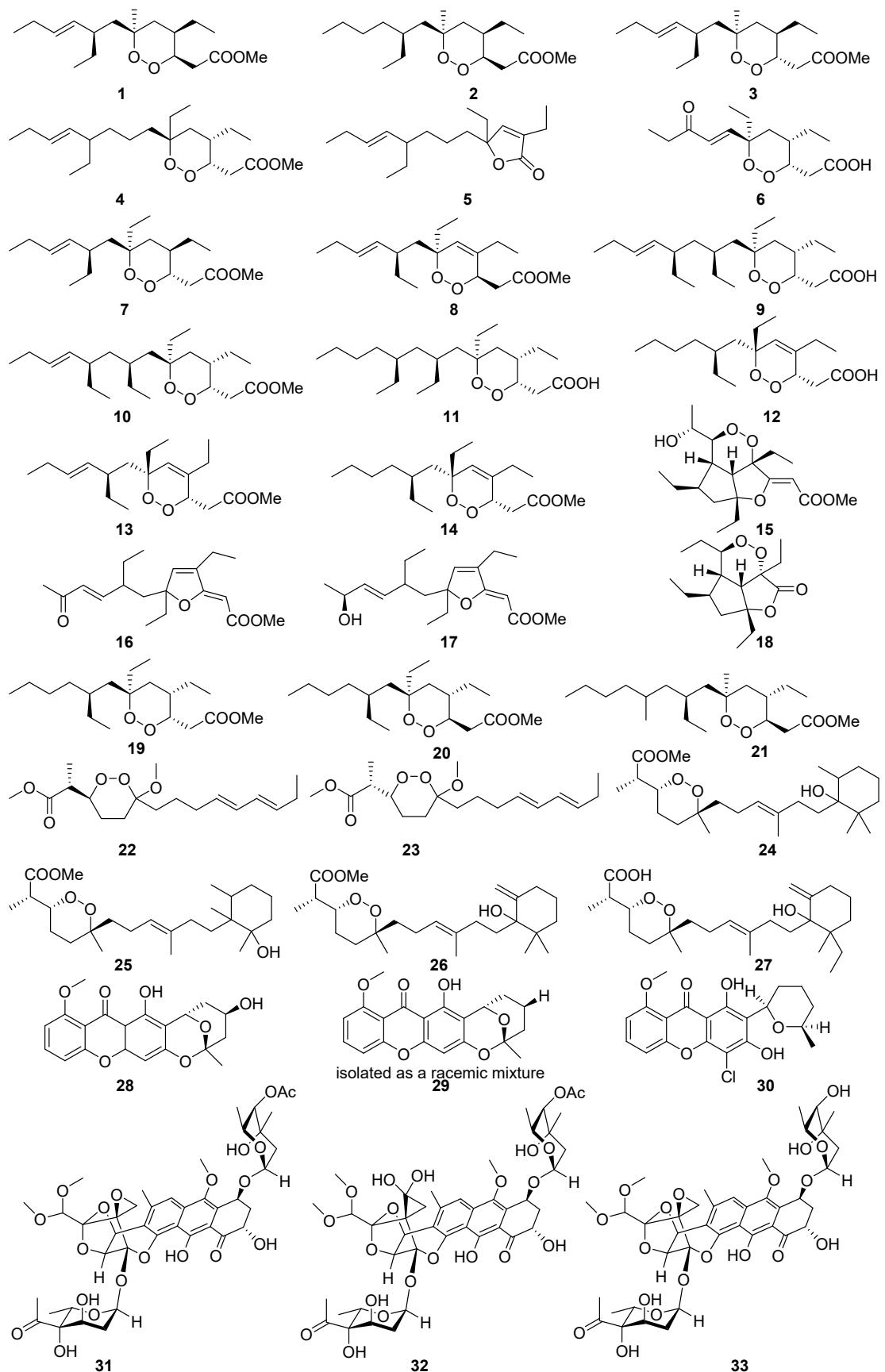
			<i>serratus</i>	
267	bromophycinolide L	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 9.8 μM
268	bromophycinolide M	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 0.5 μM
269	bromophycinolide N	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 1.4 μM
270	bromophycinolide O	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 1.4 μM
271	bromophycinolide P	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 2.9 μM
272	bromophycinolide Q	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 1.4 μM
273	bromophycinolide R	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 1.7 μM
274	bromophycinolide S	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 0.9 μM
275	bromophycinolide T	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 8.4 μM
276	bromophycinolide U	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 2.1 μM
277	callophycoic acid A	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 41.0 μM
278	callophycoic acid B	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 51.5 μM
279	callophycoic acid C	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 58.6 μM
280	callophycoic acid D	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 76.1 μM
281	callophycoic acid E	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 96.2 μM
282	callophycoic acid F	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 27.0 μM
283	callophycol A	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 35.7 μM
284	callophycol B	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 40.4 μM
285	callophycolide A	red alga	<i>Callophycus serratus</i>	IC ₅₀ = 5.2 μM
286	bastimolide A	cyanobacterium	<i>Okeania hirsute</i>	IC ₅₀ = 0.08–2.7 μM
287	bastimolide B	cyanobacterium	<i>Okeania hirsute</i>	IC ₅₀ = 5.7 μM
288	monocerin	fungus	<i>Exserohilum</i> sp.	IC ₅₀ = 1.13 μM
289	monocerin-1d	derivative	/	IC ₅₀ = 0.77 μM

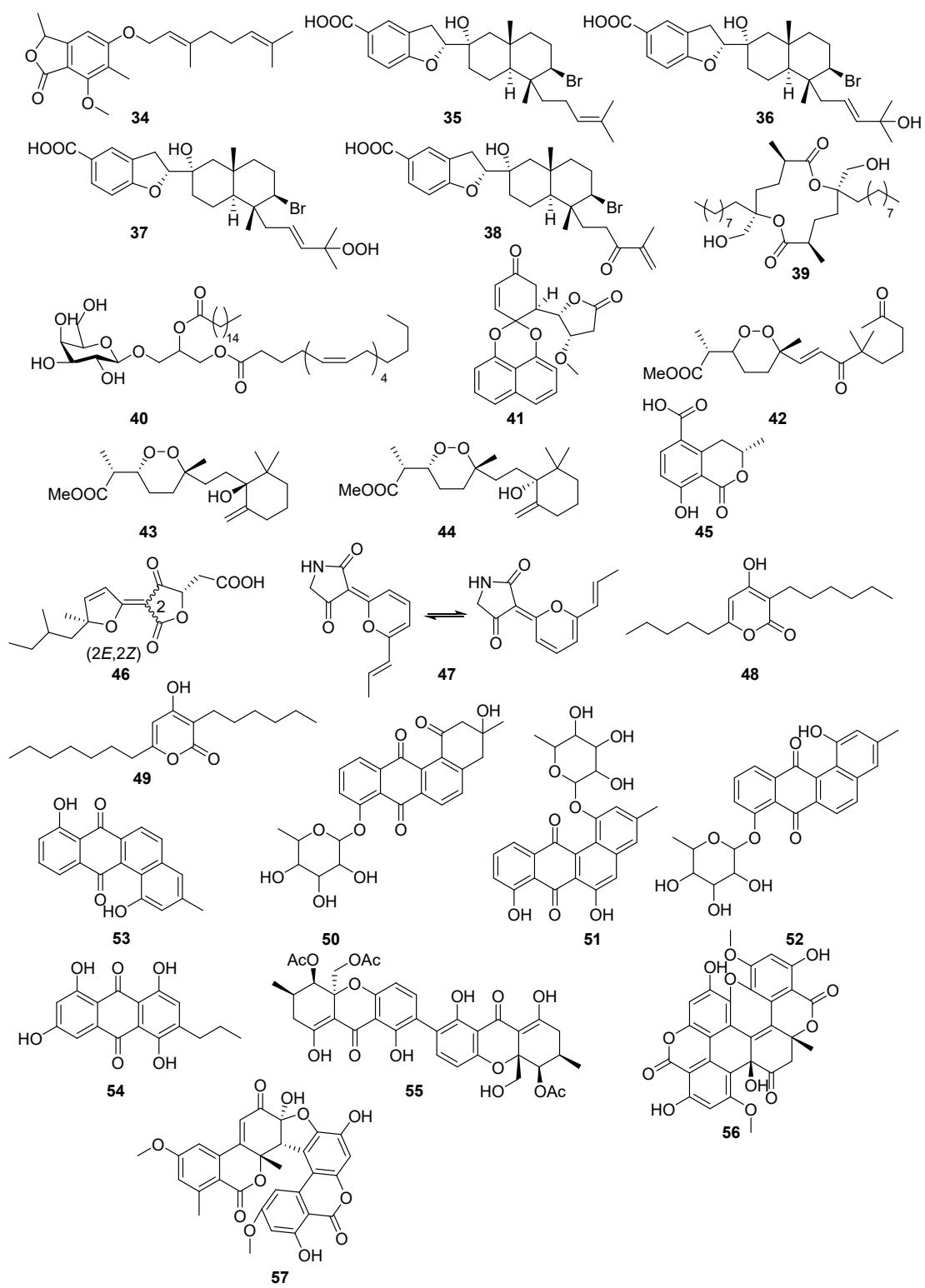
290	monocerin-1n	derivative	/	$IC_{50} = 0.38 \mu M$
291	monocerin-2a	derivative	/	$IC_{50} = 2.58 \mu M$
292	lepadin D	tunicate	<i>Didemnum</i> sp.	$IC_{50} K1 = 20 \mu M$ $IC_{50} NF54 = 33 \mu M$
293	lepadin E	tunicate	<i>Didemnum</i> sp.	$IC_{50} K1 = 0.9 \mu M$ $IC_{50} NF54 = 2 \mu M$
294	lepadin F	tunicate	<i>Didemnum</i> sp.	$IC_{50} K1 = 0.4 \mu M$ $IC_{50} NF54 = 0.7 \mu M$
295	psammaplysin F	sponge	<i>Hyattella</i> sp.	$IC_{50} Dd2 = 1.4 \mu M$ $IC_{50} 3D7 = 0.87 \mu M$
296	psammaplysin G	sponge	<i>Hyattella</i> sp.	$IC_{50} 3D7 = 5.22 \mu M$
297	psammaplysin H	sponge	<i>Pseudoceratina</i> sp.	$IC_{50} 3D7 = 0.41 \mu M$
298	kabiramid B	sponge	<i>Pachastrissa nux</i>	$IC_{50} = 1.67 \mu M$
299	kabiramid C	sponge	<i>Pachastrissa nux</i>	$IC_{50} = 4.79 \mu M$
300	kabiramid D	sponge	<i>Pachastrissa nux</i>	$IC_{50} = 1.87 \mu M$
301	kabiramid I	sponge	<i>Pachastrissa nux</i>	$IC_{50} = 4.50 \mu M$
302	kabiramid J	sponge	<i>Pachastrissa nux</i>	$IC_{50} = 0.31 \mu M$
303	kabiramid K	sponge	<i>Pachastrissa nux</i>	$IC_{50} = 0.39 \mu M$
304	kabiramid L	sponge	<i>Pachastrissa nux</i>	$IC_{50} = 2.60 \mu M$
305	elaiophylin	actinomycete	<i>Streptomyces</i> sp.	$IC_{50} Dd2 = 0.60 \mu M$ $IC_{50} 3D7 = 0.78 \mu M$
306	palstimolide A	cyanobacterium	<i>Leptolyngbya</i> sp.	$IC_{50} Dd2 = 0.22 \mu M$
307	hypothemycin	fungus	<i>Aigialus parvus</i>	$IC_{50} K1 = 5.82 \mu M$
308	aigialomycin D	fungus	<i>Aigialus parvus</i>	$IC_{50} K1 = 19.75 \mu M$
309	lagunamide A	cyanobacterium	<i>Lyngbya majuscula</i>	$IC_{50} = 0.19 \mu M$
310	lagunamide B	cyanobacterium	<i>Lyngbya majuscula</i>	$IC_{50} = 0.91 \mu M$
311	lagunamide C	cyanobacterium	<i>Lyngbya majuscula</i>	$IC_{50} = 0.29 \mu M$
312	venturamide A	cyanobacterium	<i>Oscillatoria</i> sp.	$IC_{50} = 8.2 \mu M$
313	venturamide B	cyanobacterium	<i>Oscillatoria</i> sp.	$IC_{50} = 5.6 \mu M$
314	dragomabin	cyanobacterium	<i>Lyngbya majuscula</i>	$IC_{50} W2 = 6.0 \mu M$
315	carmabin A	cyanobacterium	<i>Lyngbya majuscula</i>	$IC_{50} W2 = 4.3 \mu M$
316	dragonamide A	cyanobacterium	<i>Lyngbya majuscula</i>	$IC_{50} W2 = 7.7 \mu M$
317	gallinamide A	cyanobacterium	<i>Schizothrix</i> sp.	$IC_{50} 3D7 = 0.05 \mu M$
318	mollemycin A	actinomycete	<i>Streptomyces</i> sp.	$IC_{50} Dd2 = 7 nM$ $IC_{50} 3D7 = 9 nM$
319	hoshinoamide A	red alga	<i>Callophytus serratus</i>	$IC_{50} 3D7 = 0.52 \mu M$

320	hoshinoamide B	red alga	<i>Callophycus serratus</i>	IC ₅₀ 3D7 = 1.0 μM
321	pumilacidin A	bacterium	<i>Bacillus</i> sp.	IC ₅₀ = 8.34–15.44 μM
322	pumilacidin C	bacterium	<i>Bacillus</i> sp.	IC ₅₀ = 7.75–19.59 μM
323	companeramide A	cyanobacterium	/	IC ₅₀ D6 = 0.57 μM IC ₅₀ Dd2 = 0.10 μM IC ₅₀ 7G8 = 1.1 μM
324	companeramide B	cyanobacterium	/	IC ₅₀ D6 = 0.22 μM IC ₅₀ Dd2 = 0.23 μM IC ₅₀ 7G8 = 0.70 μM
325	dudawalamide A	cyanobacterium	<i>Moorea producens</i>	IC ₅₀ = 3.6 μM
326	dudawalamide B	cyanobacterium	<i>Moorea producens</i>	IC ₅₀ = 8.0 μM
327	dudawalamide C	cyanobacterium	<i>Moorea producens</i>	IC ₅₀ = 10 μM
328	dudawalamide D	cyanobacterium	<i>Moorea producens</i>	IC ₅₀ = 3.5 μM
329	actinoramide A	actinomycete	<i>Streptomyces bangulaensis</i>	EC ₅₀ = 0.16–0.34 μM
330	actinoramide B	actinomycete	<i>Streptomyces bangulaensis</i>	EC ₅₀ = 4.96–8.08 μM
331	actinoramide D	actinomycete	<i>Streptomyces bangulaensis</i>	EC ₅₀ = 1.55–4.21 μM
332	actinoramide E	actinomycete	<i>Streptomyces bangulaensis</i>	EC ₅₀ = 3.11–6.92 μM
333	25-epi- actinoramide A	actinomycete	<i>Streptomyces bangulaensis</i>	EC ₅₀ = 6.72–10.71 μM
334	(Z)-N-[2-(4-hydroxyphenyl)ethyl]-3-methyldodec-2-enamide	octocoral	<i>Muricea austera</i>	IC ₅₀ W2 = 36 μM
335	N-(4-Hydroxyphenethyl)-3-methyldodecanamide	octocoral	<i>Muricea austera</i>	IC ₅₀ W2 = 45 μM
336	(5Z,8Z,11Z)-N-(4-Hydroxyphenylethyl)tetradeca-5,8,11-trienamide	octocoral	<i>Muricea austera</i>	IC ₅₀ W2 = 38 μM
337	ikoamide	cyanobacterium	<i>Okeania</i> sp.	IC ₅₀ 3D7 = 0.14 μM
338	dominicin	sponge	<i>Eurypon laughlini</i>	IC ₅₀ Dd2 = 1.8 μM IC ₅₀ 3D7 = 3.6 μM
339	friomaramide	sponge	<i>Inflatella coelosphaeroides</i>	IC ₅₀ = 6.1 μM
340	kaimanol	sponge	<i>Xestospongia</i> sp.	IC ₅₀ 3D7 = 359 nM
341	saringosterol	sponge	<i>Xestospongia</i> sp.	IC ₅₀ 3D7 = 0.25 nM
342	halymeniaol	red alga	<i>Halymenia floresii</i>	IC ₅₀ 3D7 = 3.7 μM

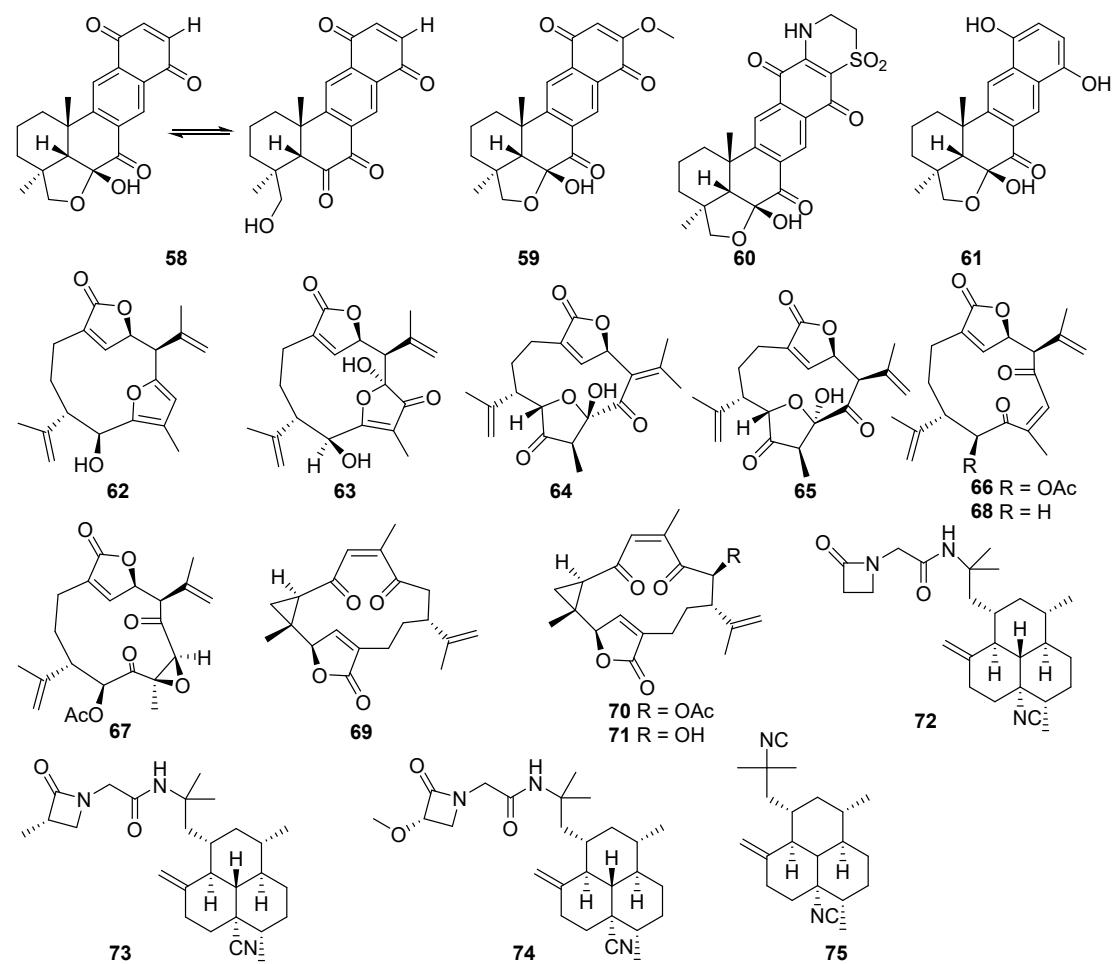
343	24S-24-methyl-cholestane 3 β , 6 β , 25-triol-25-O-acetate	sponge	<i>Callyspongia fibrosa</i>	IC ₅₀ 3D7 = 54.81 μ M IC ₅₀ K1 = 54.02 μ M
344	24S-24-methyl-cholestane-3 β , 5 α , 6 β , 25-tetraol-25-monoacetate	sponge	<i>Callyspongia fibrosa</i>	IC ₅₀ 3D7 = 30.1 μ M IC ₅₀ K1 = 20.54 μ M
345	24S-24-methyl-cholestane-3 β , 6 β , 8 β , 25-tetraol-25-O-acetate	sponge	<i>Callyspongia fibrosa</i>	IC ₅₀ 3D7 = 48.46 μ M IC ₅₀ K1 = 44.44 μ M
346	24S-24-methyl-cholestane-3 β , 5 α , 6 β , 12 β , 25-pentaol-25-O-acetate	sponge	<i>Callyspongia fibrosa</i>	IC ₅₀ 3D7 = 48.48 μ M IC ₅₀ K1 = 47.75 μ M
347	3'-O-Acetyl-3 β -pregna-5,20-dienyl- β -d-arabinopyranoside	octocoral	<i>Muricea austera</i>	IC ₅₀ W2 = 67 μ M
348	4'-O-Acetyl-3-pregna-5,20-dienyl- β -d-arabinopyranoside	octocoral	<i>Muricea austera</i>	IC ₅₀ W2 = 80 μ M
349	salinipostin A	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 0.05 μ M
350	salinipostin B	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 0.14 μ M
351	salinipostin C	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 0.41 μ M
352	salinipostin D	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 0.08 μ M
353	salinipostin E	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 3.22 μ M
354	salinipostin F	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 0.27 μ M
355	salinipostin G	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 1.52 μ M
356	salinipostin H	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 0.87 μ M
357	salinipostin I	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 1.26 μ M
358	salinipostin J	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 49.6 μ M
359	salinipostin K	actinomycete	<i>Salinospora</i> sp.	EC ₅₀ W2 = 32 μ M
360	polyether metabolite	actinomycete	<i>Streptomyces</i> sp.	IC ₅₀ = 0.15–0.29 μ M
361	bifurcatriol	brown alga	<i>Bifurcaria bifurcata</i>	IC ₅₀ K1 = 2.0 μ M

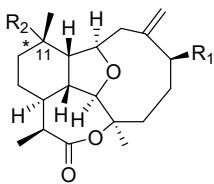
Polyketide (1–57, 57)



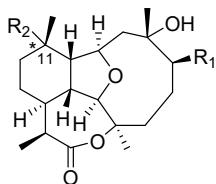


Terpenoid (58–157, 100)

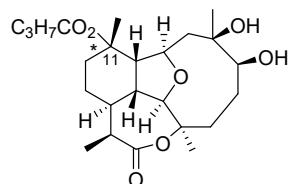




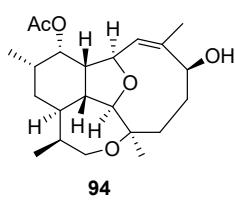
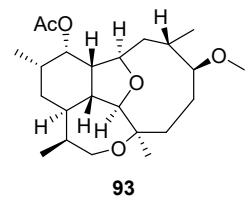
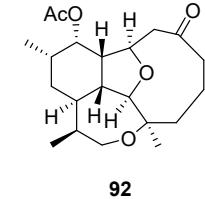
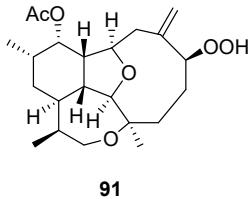
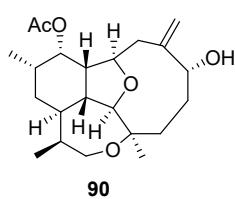
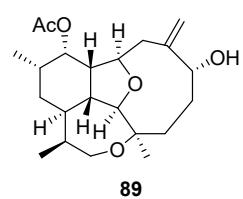
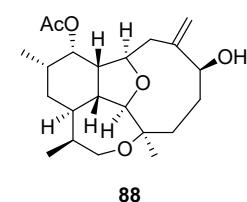
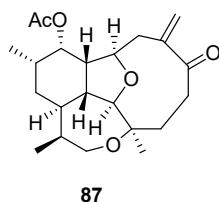
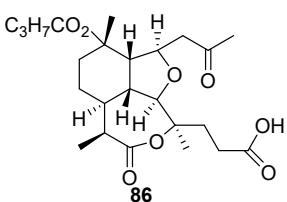
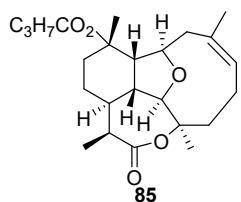
76 R₁ = OH, R₂ = O₂CC₃H₇
 77 R₁ = OOH, R₂ = O₂CC₃H₇
 78 R₁ = OH, R₂ = OAc
 79 R₁ = OOH, R₂ = OAc
 80 R₁ = OAc, R₂ = O₂CC₃H₇



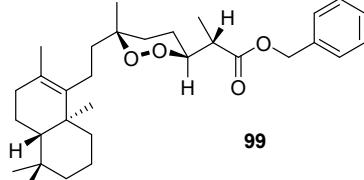
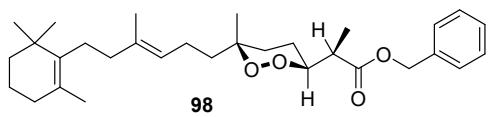
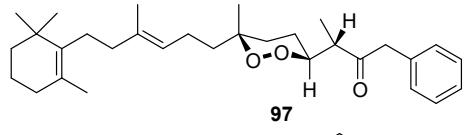
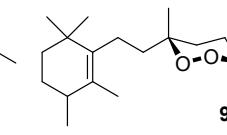
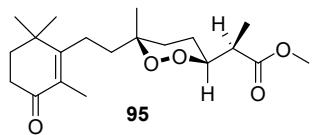
81 R₁ = OH, R₂ = OAc
 82 R₁ = OH, R₂ = O₂CC₃H₇
 83 R₁ = OMe, R₂ = O₂CC₃H₇

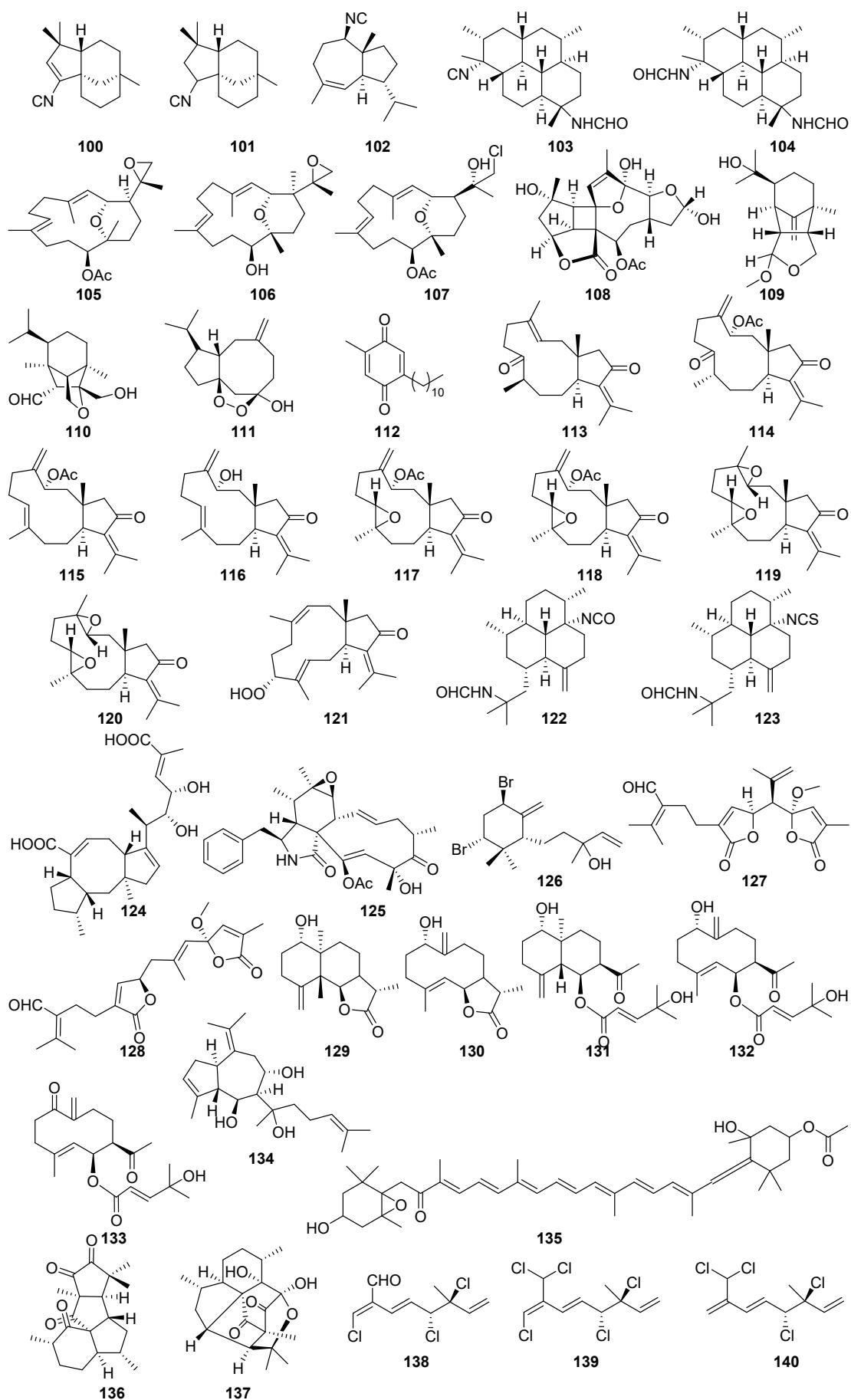


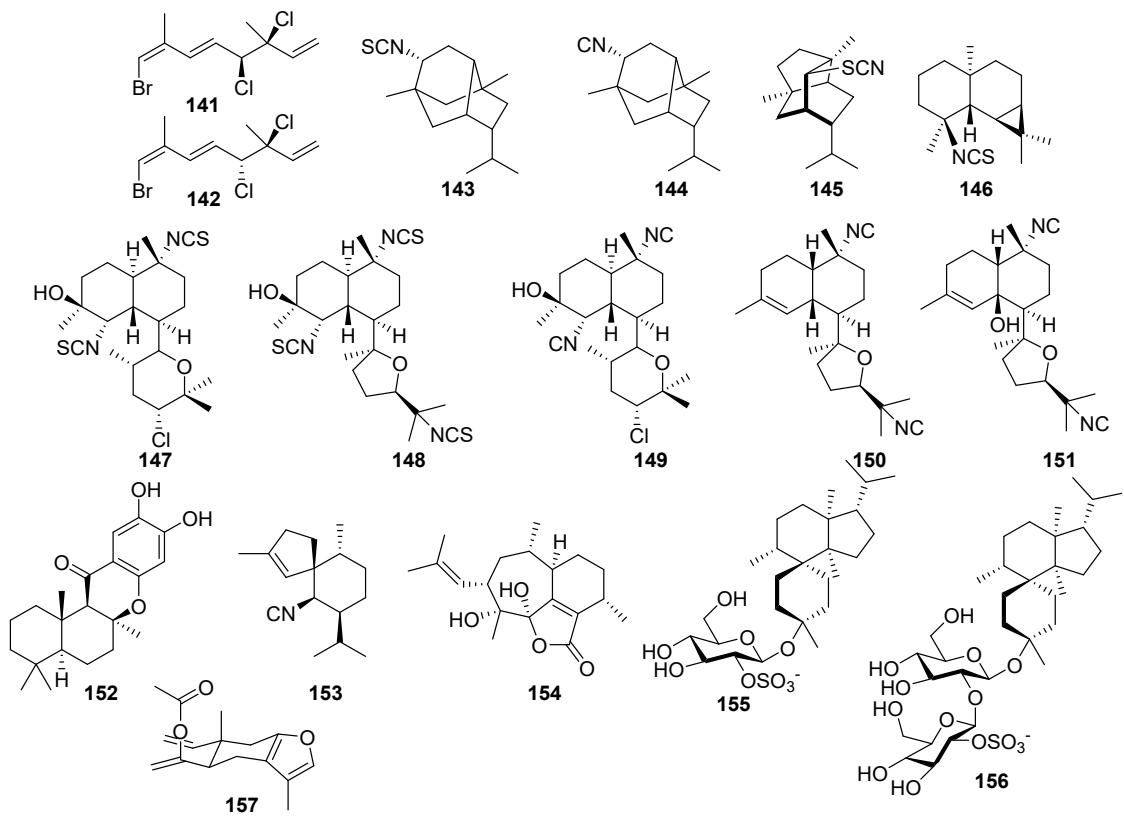
84



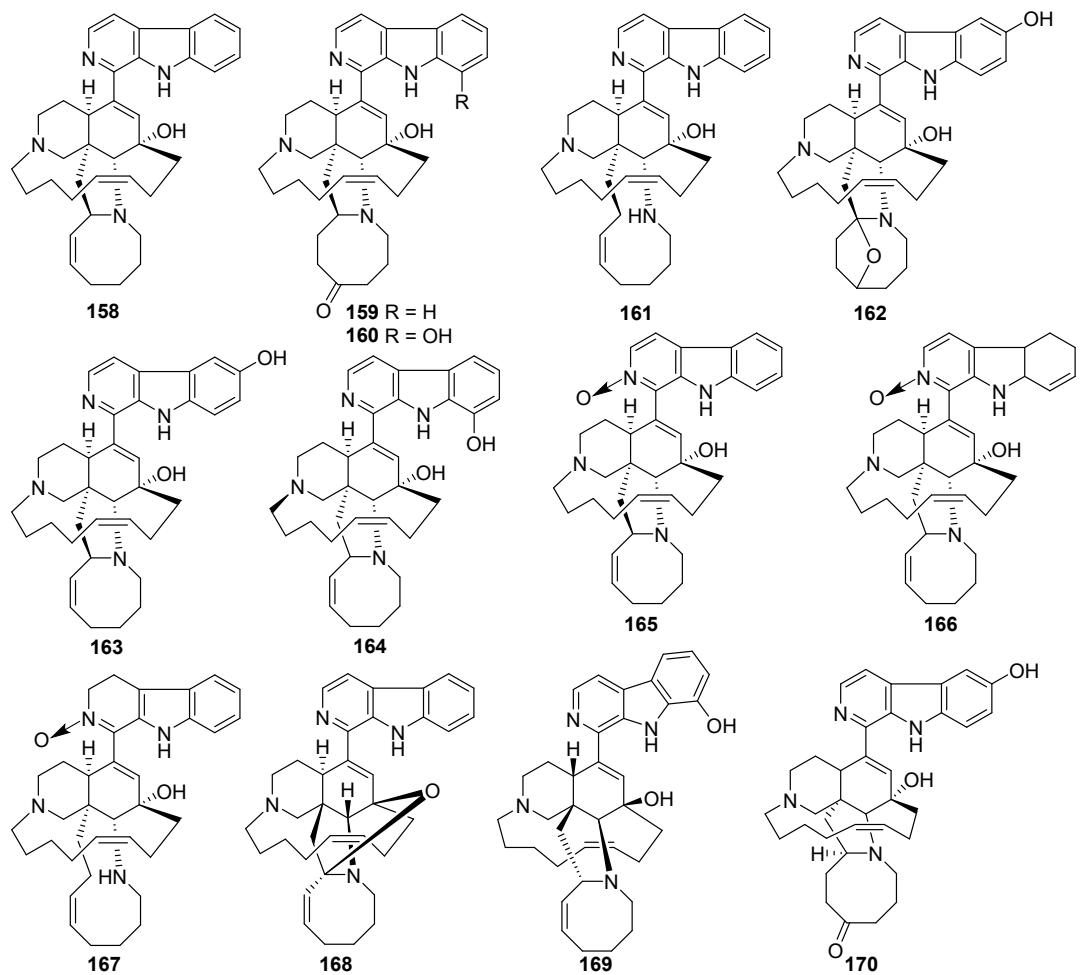
* These structures may require a revision of the stereochemistry of C-11

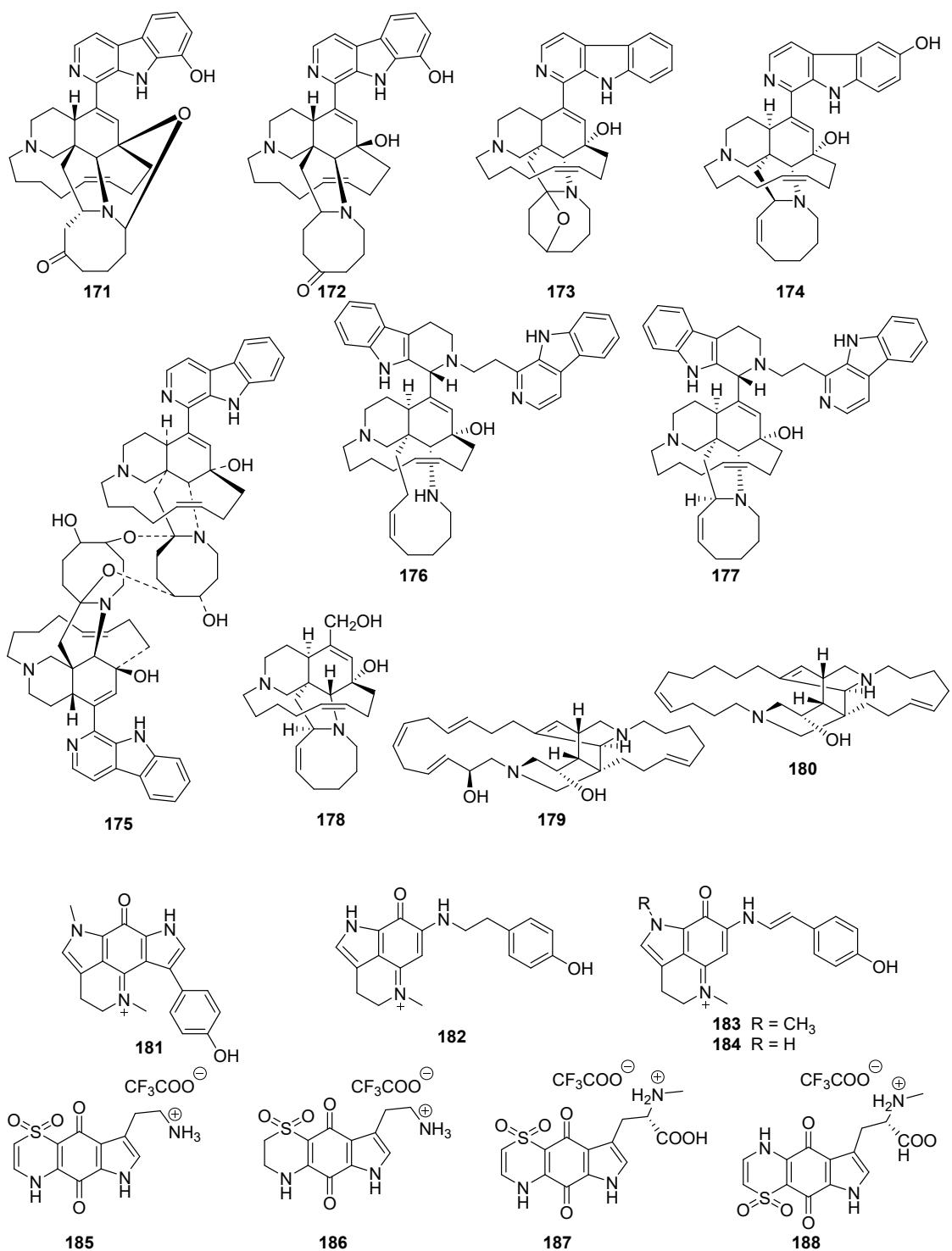


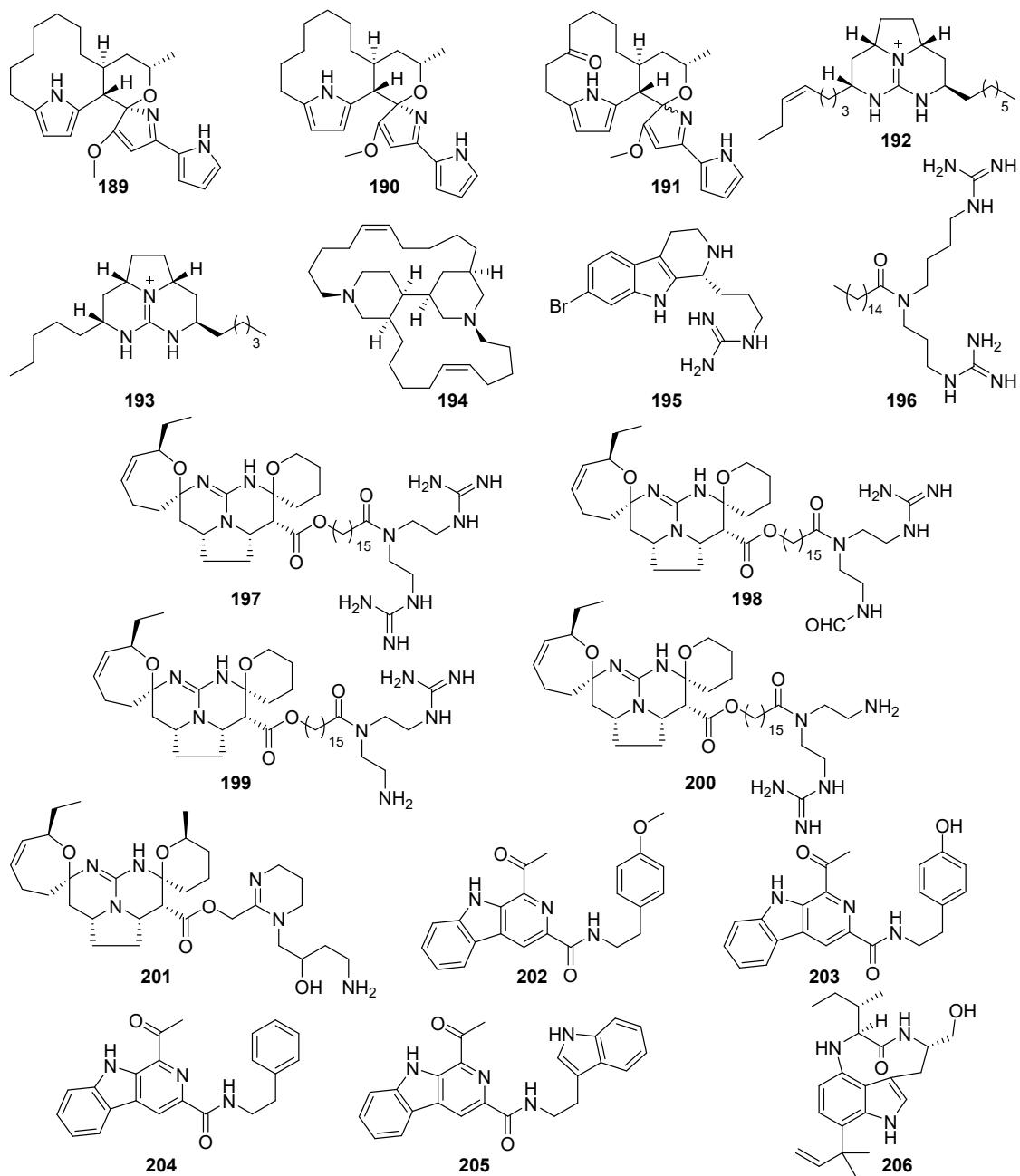


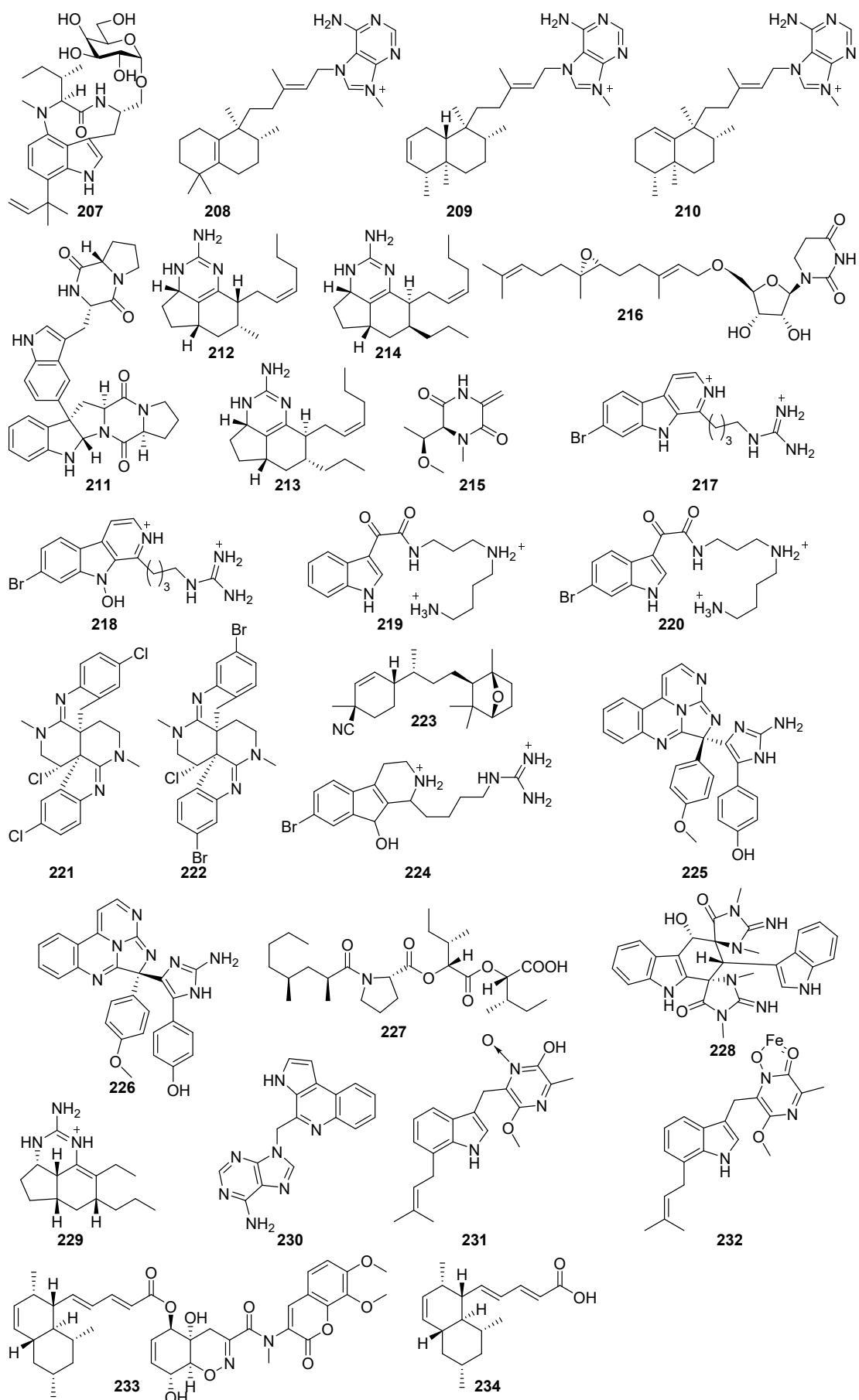


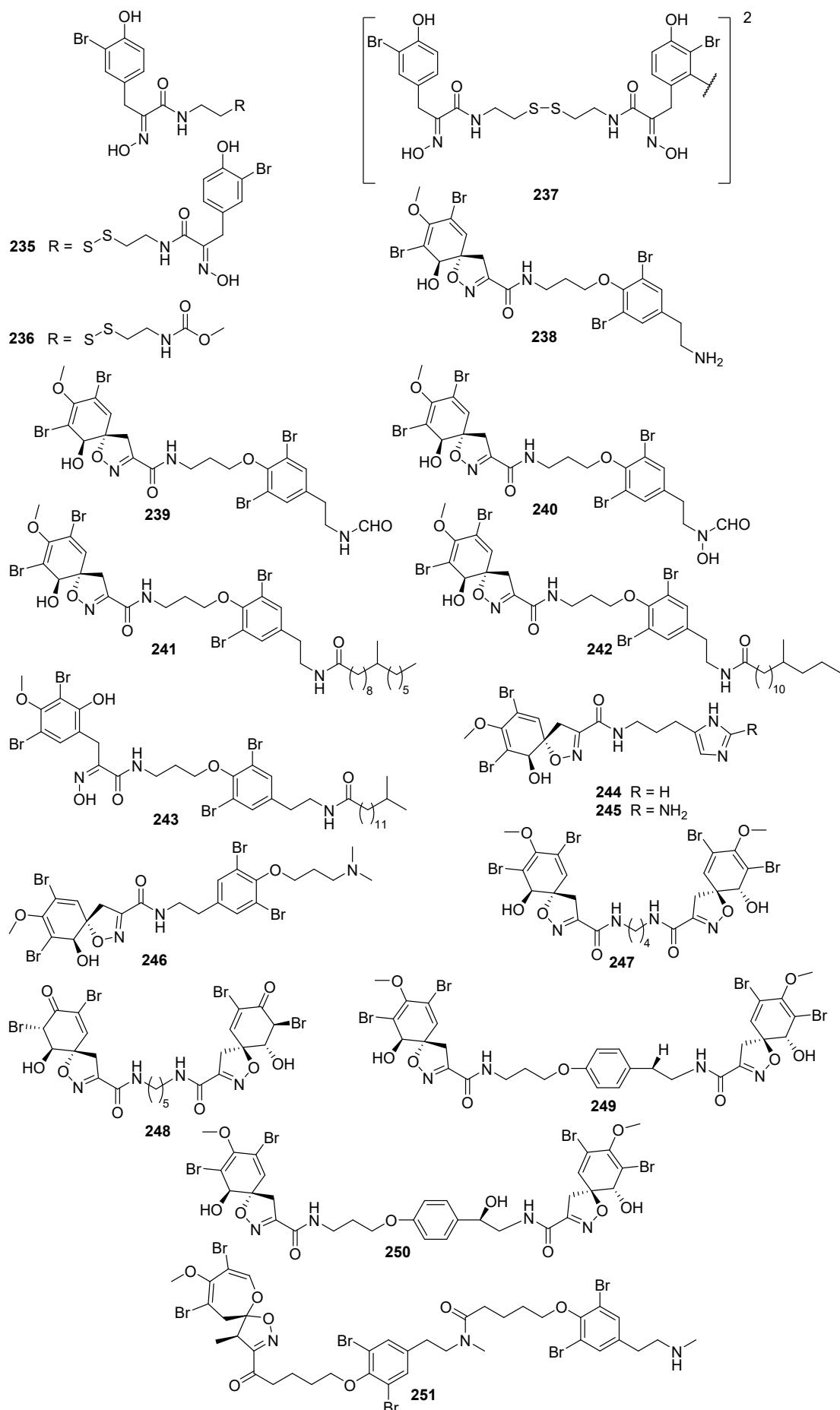
Alkaloid (158–255, 98)

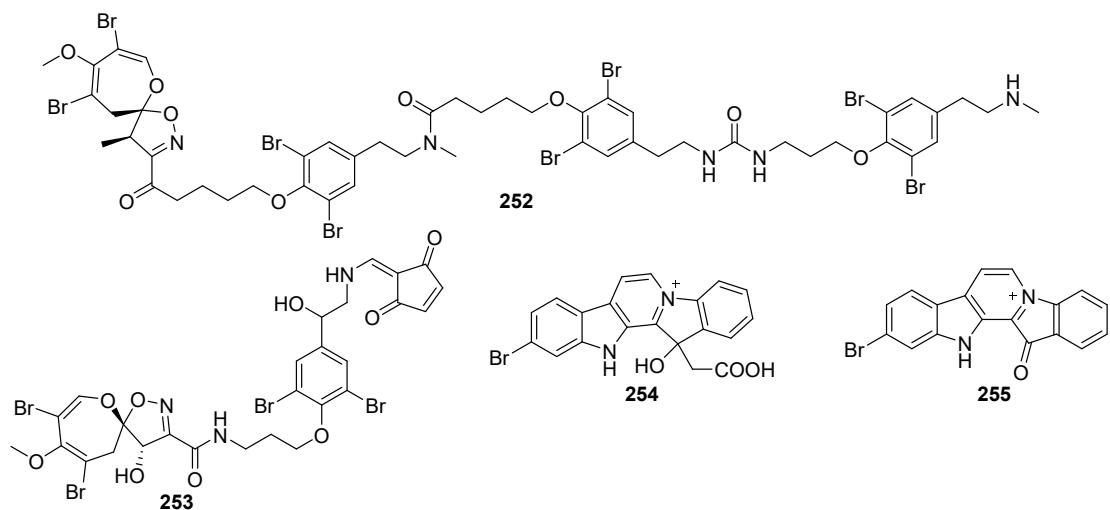




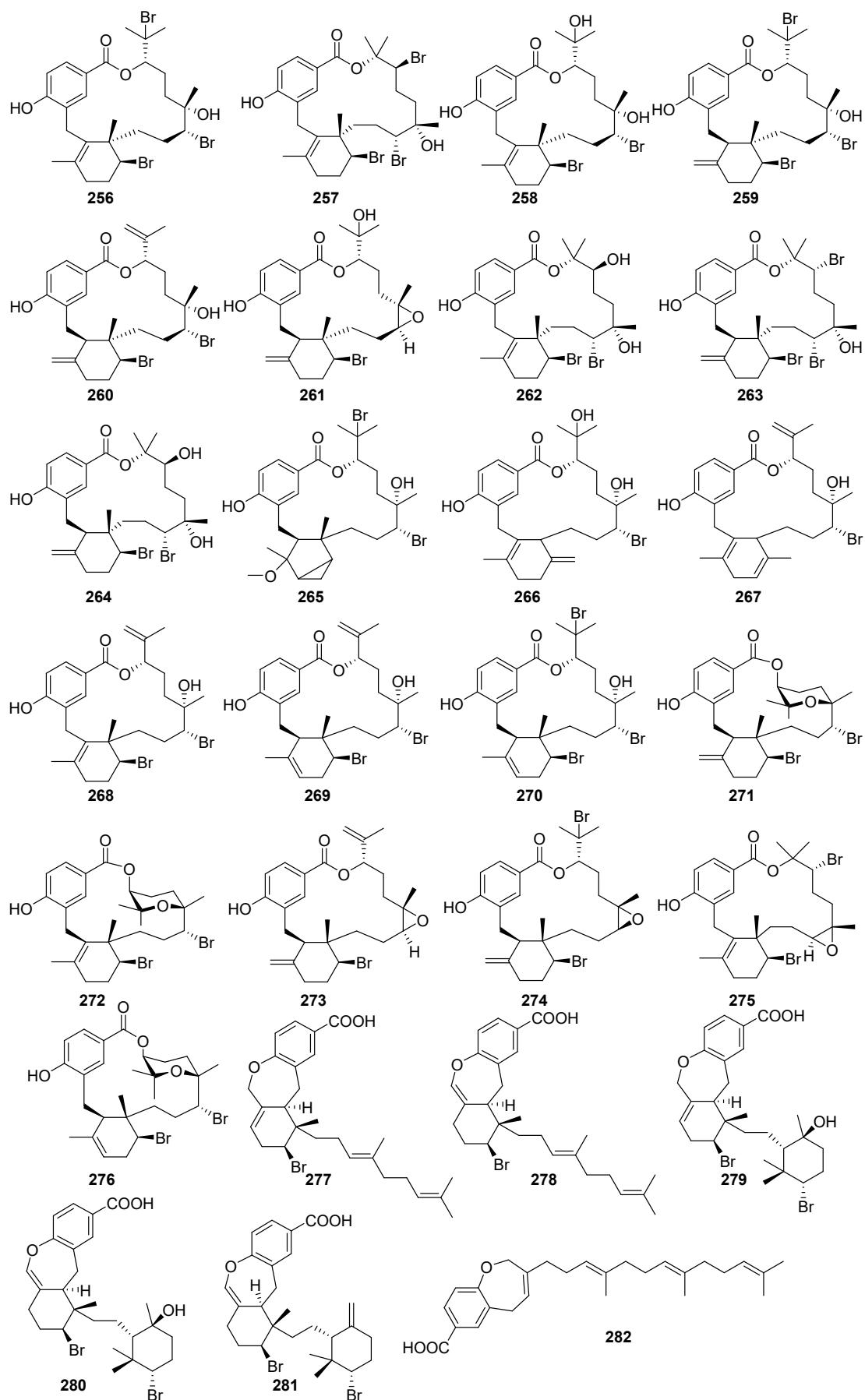


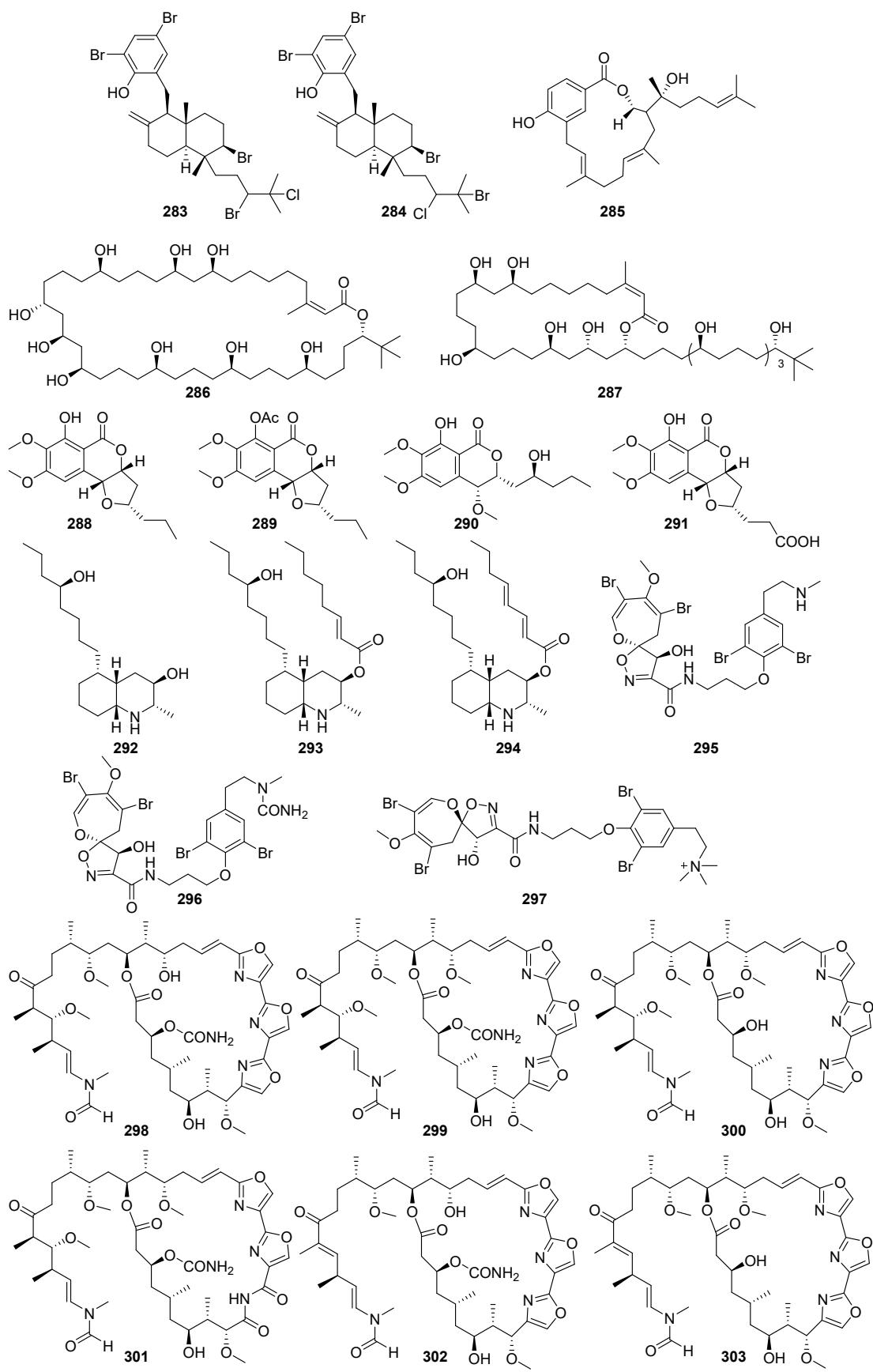


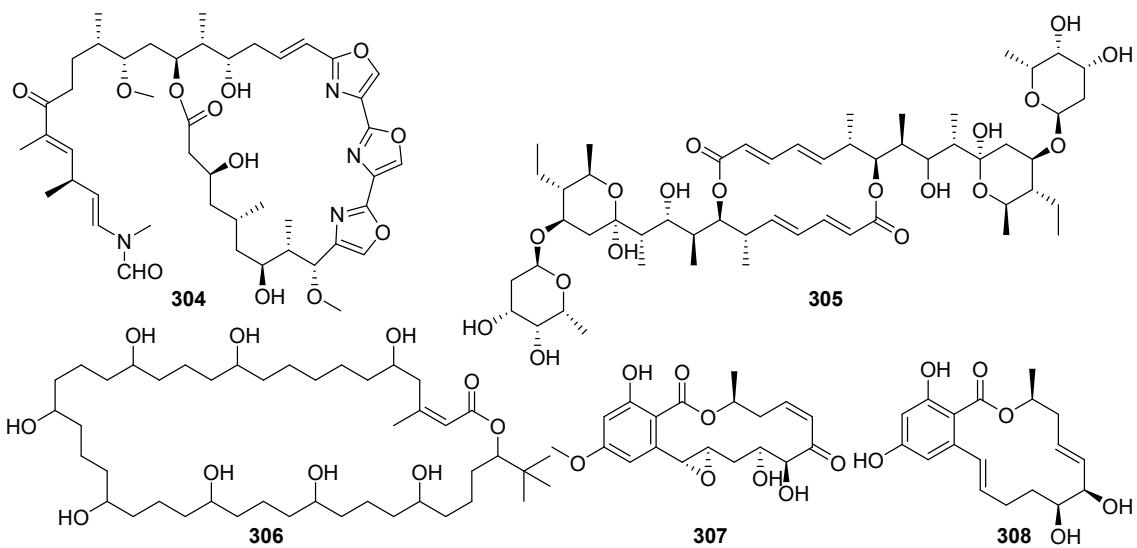




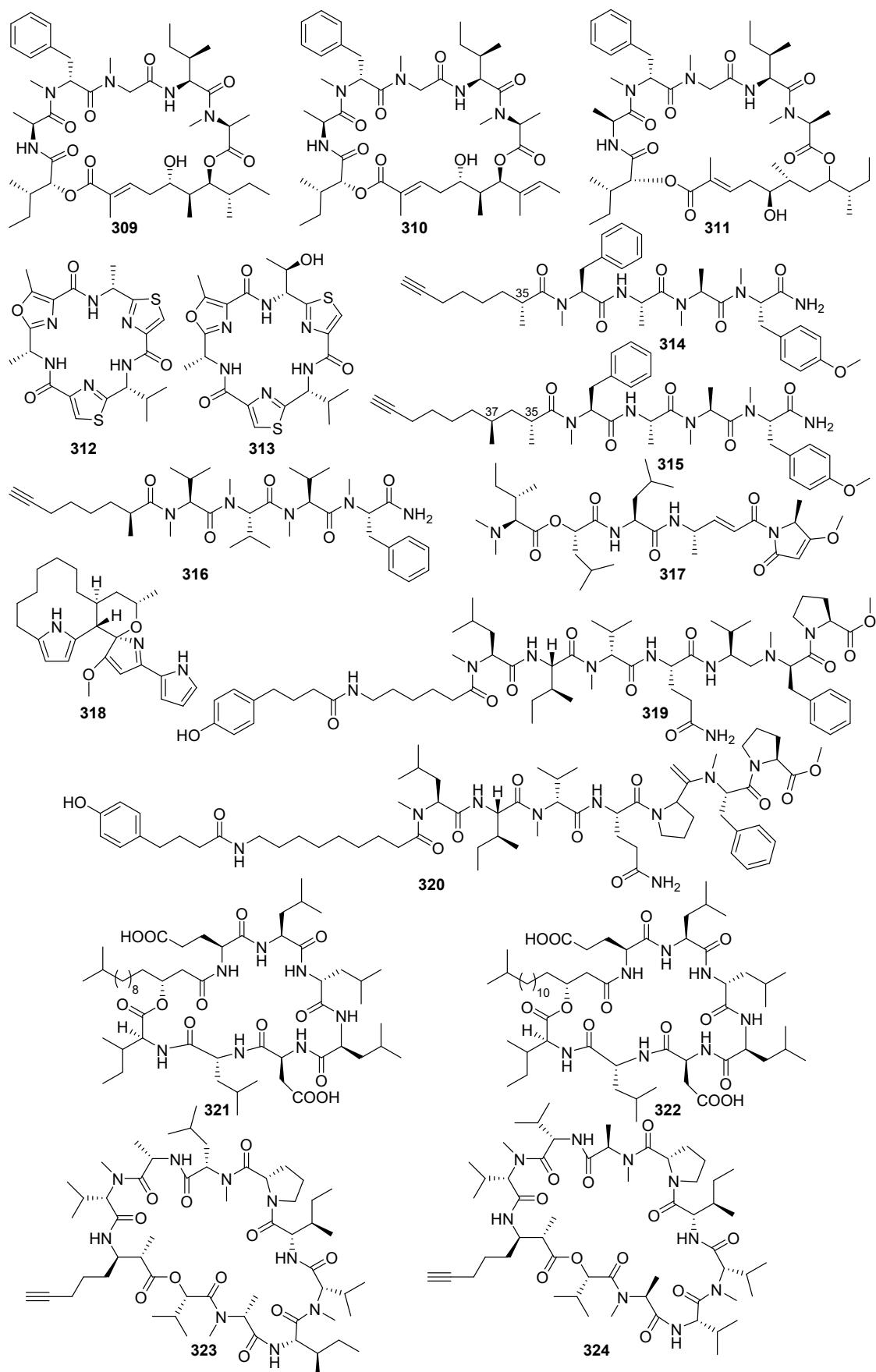
Macrolide (256–308, 53)

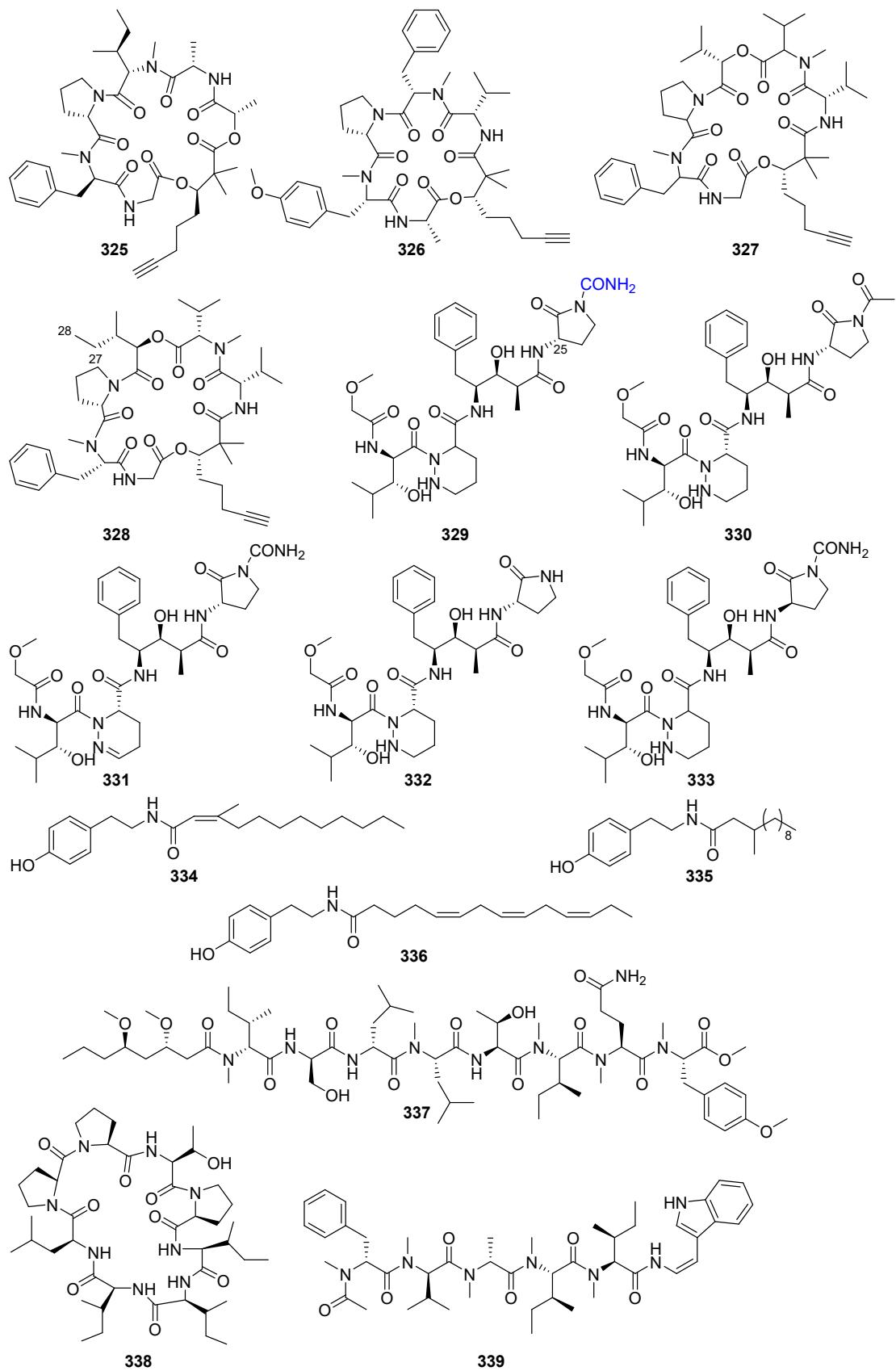




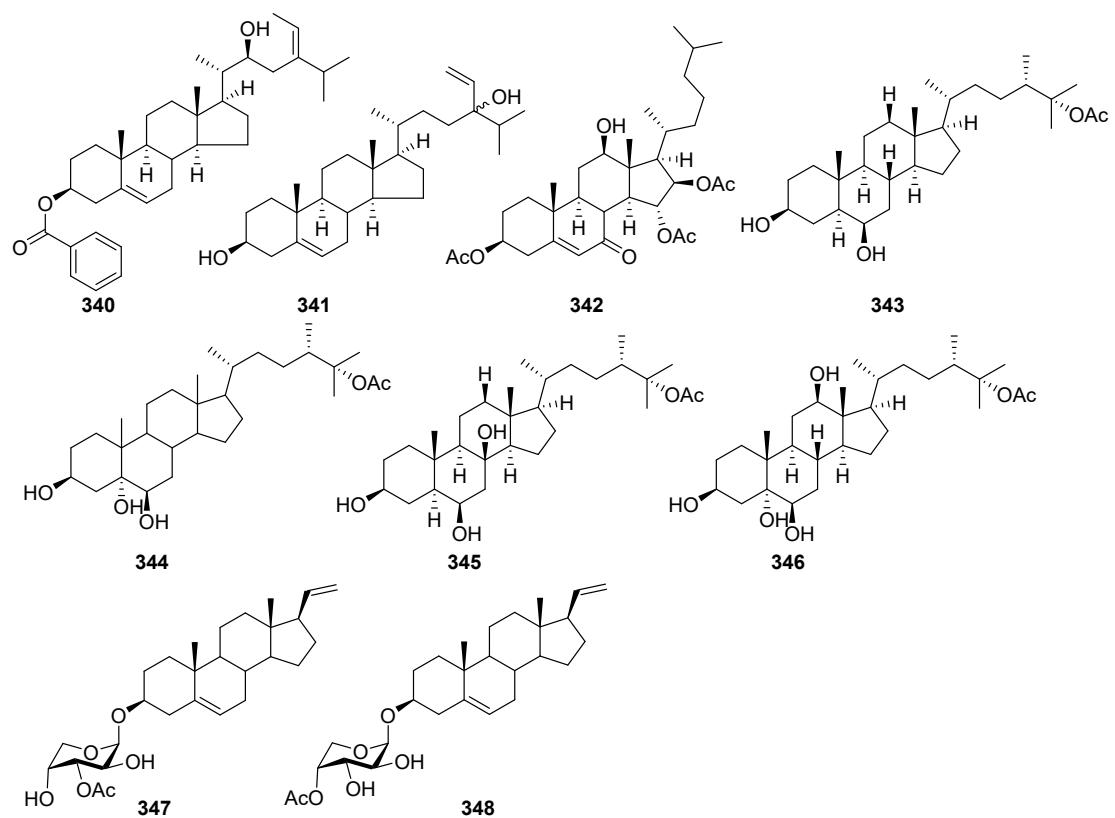


Peptide (309–339, 31)





Steroid (340–348, 9)



Others (349–361, 13)

