

Supporting Information for

An overview of Bioactive 1,3-oxazole-Containing Alkaloids from Marine Organisms

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Table S1 Detail information for bioactive 1,3-oxazole-containing alkaloids (1-285) from marine organisms.

Number	Name	Marine Source	Biological Activity	Reference
1	Almazole A	Red seaweed of the family <i>Delesseriaceae</i> --		[1]
2	Almazole B	from the coasts of Senegal.	--	
3	Almazole C		--	[2]
4	Almazole D		Antibacterial against Gram-negative <i>Serratia marcescens</i> and <i>Salmonella typhi</i> XLD.	[3]
5	Streptochlorin	Strain <i>Streptomyces</i> sp. 04DH110 isolated from shallow water sediment taken at -1 mand depth of Ayajin Bay (Korea).	Inhibitory activity against human leukemia cells (IC ₅₀ 1.05 µg/ml) and immortalized hepatocytes derived from normal human liver; antifungal activity.	[4]
6	Martefragin A	Red alga <i>Martensia fragilis</i> , collected off the coast of Uozu, Toyama Prefecture (Japan).	Inhibitory activity on NADPH-dependent lipid peroxidation in rat liver microsomes.	[5]
7	Almazolone	Red alga of Senegal <i>Haraldiophyllum</i> sp. from--Dakar (Senegal).		[6]
8	Serratiochelin A	Isolated from a co-culture of <i>Serratia</i> sp. and <i>Shewanella</i> sp.	Antiproliferative activity on human melanoma cell line and non-malignant lung fibroblasts; antimicrobial effect on <i>Staphylococcus aureus</i> .	[7]
9	JBIR 34	A sponge-derived <i>Streptomyces</i> sp.	DPPH radical scavenging activity with an IC ₅₀ value of 1.0 mM.	[8]
10	JBIR 35	Sp080513GE-23, isolated from a marine sponge, <i>Haliclona</i> sp. Which collected from Tateyama city, Chiba Prefecture, Japan.	DPPH radical scavenging activity with an IC ₅₀ value of 2.5 mM.	
11	Nigribactin	Marine bacteria <i>Vibrio nigripulchritudo</i> ,--isolated from marine Galathea.		[9]
12	Phorbazole A	Marine sponge <i>Phorbis aff. clathrata</i> collected--		[10]
13	Phorbazole B	off Sodwana Bay (South Africa).	--	
14	Phorbazole C		--	
15	Phorbazole D		--	
16	9-Chloro-phorbazole D	Nudibranch <i>Aldisa andersoni</i> , collected off	In vitro growth inhibitory activity against five human cancer cell	[11]

17	N1-methyl-phorbazole A	Muttom coast (India).	lines (A549; MCF-7; SKMEL-28; Hs683; U373).	
18	Ariakemicin A	<i>Rapidithrix</i> sp. from the muddy land	Selectively inhibitory effect on the growth of Gram-positive bacteria	
19	Ariakemicin B; Δ 11-isomer	alongside the Ariake Inland Sea in southwest Japan.	(<i>Brevibacterium</i> sp., <i>Staphylococcus aureus</i> , and <i>Bacillus subtilis</i>); slight cytotoxicity against A549 human lung cancer cells and BHK baby hamster kidney cells with IC ₅₀ values of 25 and 15 μ g/mL, respectively.	[12]
20	Breitfussin A	Marine hydrozoan <i>Thuiaria breitfussi</i> ,-- collected from Bjørnøya (Bear island).		
21	Breitfussin B	--		[13]
22	Breitfussin C		Cytotoxicity against seven cancer cell lines (MCF-7, MDA-MB-468, and SK-BR-3; breast adenocarcinoma, HT-29; colon adenocarcinoma, MOLT-4 and MV-4-11; leukemia, and A2058; melanoma) and one nonmalignant cell line (MRC-5; lung fibroblasts); an extraordinarily potential inhibitor for PIM1 and DRAK1 kinases.	[14]
23	Breitfussin D	--		
24	Breitfussin E	---		
25	Breitfussin F	--		
26	Breitfussin G	--		
27	Breitfussin H	--		
28	Mechercharstatin B	Strain <i>Thermoactinomyces</i> sp. YM3-251-- isolated from sea mud collected at Mecherchar in the Republic of Palau.		[15]
29	Siphonazole A	<i>Herpetosiphon</i> sp. from a mud sample of the	Selective cytotoxicity to human breast cancer HTB-129 and acute T	[16]

30	Siphonazole A; 3'-Me ether	intertidal region.	cell leukemia TIB-152.	
31	Nazumazole A	Marine sponge <i>Theonella swinhoei</i> , collected at Hachijo Island (Japan).	Cytotoxic to P388 cells.	[17]
32	Nazumazole B			
33	Nazumazole C			
34	Nazumazole D		Inhibit chymotrypsin.	[18]
35	Nazumazole E			
36	Nazumazole F			
37	Orbiculamide A	Marine sponge <i>Theonella</i> sp., collected at Hachijo Island (Japan).	Cytotoxic to P388 murine leukemia cells.	[19]
38	Keramamide B	Marine sponge <i>Theonella</i> sp. collected at Kerama Islands (Japan).	Inhibited the superoxide generation response of the human neutrophils elicited with a chemotactic peptide, <i>N</i> -formyl-Met-Leu-Phe (fMLP). Cytotoxicity against L1210 murine leukemia cells and KB human epidermoid carcinoma cells.	[20]
39	Keramamide C			
40	Keramamide D			
41	Keramamide E			
42	Keramamide M			
43	Keramamide N			[22]
44	Discobahamin A	Marine sponge <i>Discodermia</i> sp., isolated from a new species of the Bahamian deep water.	Inhibitor of the growth of <i>Candida albicans</i> .	[23]
45	Discobahamin B			
46	Bistratamide A	Ascidian <i>Lissoclinum bistratum</i> , collected at Heron Island Reef on the Great Barrier Reef, Australia.	Cytotoxicity toward human cell lines, MRC5CV1 fibroblasts and T24 bladder carcinoma cells.	[24]
47	Bistratamide B			
48	Bistratamide C	Ascidian <i>Lissoclinum bistratum</i> in the Philippines.	Depressant effects in the ic. Mouse.	[25]
49	Bistratamide D			
50	Bistratamide E			
51	Bistratamide F		Moderately cytotoxic in the HCT-116 cell line assay. Moderately cytotoxic in the HCT-116 cell line assay. Moderate activity against the human colon tumor (HCT-116) cell line.	[26]
52	Bistratamide G			
53	Bistratamide H			
54	Bistratamide I		--	[27]
55	Bistratamide K			
56	Bistratamide L			

57	Bistratamide M	Ascidian <i>Lissoclinum bistratum</i> collected in	Moderate cytotoxicity against four human tumor cell lines with GI ₅₀
58	Bistratamide N	Raja Ampat (Papua Bar, Indonesia).	values in the micromolar range.
59	Westiellamide	A terrestrial blue-green alga <i>Westiellopsis prolifera</i> , collected from a mud sample on the island of Oahu, Hawaii.	Cytotoxic against KB and LoVo cell lines. [28]
60	Dendroamide A	A terrestrial blue-green alga	Multidrug-resistance reversing activity.
61	Dendroamide B	(cyanobacterium) <i>Stigonema dendroideum</i> --	
62	Dendroamide C	Fremy, isolated from a rock sample collected--at Wainapanapa, Maui.	[29]
63	Didmolamide A	Ascidian <i>Didemnum molle</i> , collected in	Mildly cytotoxic against tumor cell lines (A549, HT29, and MEL28). [30]
64	Dolastatin E	Sea hare <i>Dolabella auricularia</i> in Japanese.	Cytotoxic activity against HeLa S ₃ cells. [31]
65	Dolastatin I		Cytotoxicity against HeLa S ₃ cells. [32]
66	Leucamide A	Marine sponge <i>Leucetta microraphis</i> collected in Australian.	Moderately cytotoxic toward several tumor cell lines. [33]
67	Comoramide A	Ascidian <i>Didemnum molle</i> , collected at	Mild cytotoxicity against several tumor cells (A549, HT29 and MEL-28). [34]
68	Venturamide A	Cyanobacterium <i>Oscillatoria</i> sp., collected from Buenaventura Bay.	Strong <i>in vitro</i> activity against <i>Plasmodium falciparum</i> (8.2 µM); mild cytotoxicity to mammalian Vero cells (86 µM).
69	Venturamide B		Strong antimalarial activity against <i>Plasmodium falciparum</i> (5.6 µM); mild cytotoxicity to mammalian Vero cells (56 µM). [35]
70	Tenuencyclamide A	Cyanobacterium <i>Nostoc spongiaeforme</i> var.	Inhibit sea urchin embryos with ED ₁₀₀ of 10.8 µM.
71	Tenuencyclamide B	<i>Tenue</i> , isolated from a lithophytic sample--	
72	Tenuencyclamide C	collected in the Volcani Center, Bet Dagan,	Inhibit sea urchin embryos with ED ₁₀₀ of 9.0 µM. [36]
73	Tenuencyclamide D	Israel.	Inhibit sea urchin embryos with ED ₁₀₀ of 19.1 µM.
74	Microcyclamide	Cyanobacterium <i>Microcystis aeruginosa</i> (NIES-298), obtained from the NIES collection (Microbial Culture Collection, the National Institute for Environmental Studies, Japan).	Moderate cytotoxicity against P388 murine leukemia cells. [37]

75	Microcyclamide GL628	A waterbloom of the cyanobacterium	Inhibit one solid tumor (A549-lung) and one leukemia (Molt-4) cell	
76	Microcyclamide GL614C	<i>Microcystis</i> sp., isolated from Gilboalines.		
77	Microcyclamide GL582	reservoir, Valley of Armageddon, Israel.		
78	Microcyclamide GL614A			[38]
79	Microcyclamide GL614B			
80	Microcyclamide GL546A			
81	Microcyclamide GL546B			
82	Cyanothecamide C	Marine cyanobacteria <i>Cyanothece</i> sp. PCC--7425, obtained from the Pasteur culture collection of cyanobacteria (Paris).		[39]
83	Cyclodidemnamide	Marine ascidian <i>Didemnum molly</i> , collected in the Philippine Islands.	Weakly cytotoxic toward human colon tumor cells. HCT-116, <i>in vitro</i> , with an ED ₅₀ of 16 µg/mL.	[40]
84	<i>cis, cis</i> -ceratospongamide	The Indonesian red alga <i>Ceratodictyon</i>	--	
85	<i>trans, trans</i> -ceratospongamide	<i>spongiosum</i> and symbiotic sponge <i>Sigmadocia symbiotica</i> .	Anti-inflammation; inhibit the expression of a human-sPLA2 promoter-based reporter by 90%.	[41]
86	Lissoclinamide 1	Tunicate <i>Lissoclinum patella</i> , collected in Iwayama Bay (near the Continental Hotel dock), Korrör Island, Western Caroline Islands.	Borderline cytotoxicity in L1210 tissue culture assay.	
87	Lissoclinamide 2			
88	Lissoclinamide 3			[42]
89	Lissoclinamide 4	Ascidian <i>Lissoclinum patella</i> , collected in Australia.	Cytotoxicity against human fibroblast, bladder carcinoma cell lines and normal lymphocytes; Marginal cytotoxicity against lymphocytic leukemia cells.	
90	Lissoclinamide 5			[43]
91	Lissoclinamide 6		Marginal cytotoxicity against lymphocytic leukemia cells with ED ₅₀ of 6.9 µg/mL.	
92	Lissoclinamide 7		Cytotoxicity against human fibroblast, bladder carcinoma cell lines and normal lymphocytes.	
93	Lissoclinamide 8			[44]
94	Lissoclinamide 9	An Indonesian collection of the ascidian--		
95	Lissoclinamide 10	<i>Lissoclinum Patella</i> .	--	[45]
96	Ulicyclamide	Ascidian <i>Lissoclinum patella</i> , collected from Palau, Western Caroline Islands.	Cytotoxic against cultured L1210 mouse leukemia cells.	[46]

97	Sanguinamide B	Nudibranch <i>Hexabranchus sanguineus</i> , Disrupted the twitching activity of <i>Pseudomonas aeruginosa</i> . collected from the Indo-Pacific.	[47]
98	Myriastramide A	A Philippines marine sponge <i>Myriastraclos</i> .	[48]
99	Myriastramide B		
100	Myriastramide C		
101	Haliclona A	A Palauan marine sponge <i>Haliclona</i> sp.	[49]
102	Haliclona B	--	
103	Haliclona C	Repellent activity against the blue mussel <i>Mytilus edulis galloprovincialis</i> .	[50]
104	Haliclona D		
105	Haliclona E		
106	Perthamide J	Marine sponge <i>T. swinhoei</i> , collected at a depth of 22 m, on an isolated reef off the western coast of Malaita Island, Solomon Islands.	[51]
107	Perthamide K		
108	Ascidacyclamide	Ascidian, collected from Rodda Reef, Queensland, Australia.	[52]
109	Prepatellamide A	Ascidian <i>Lissoclinum patella</i> , collected in Indonesia.	[53]
110	Prepatellamide B formate	Ascidian <i>Lissoclinum patella</i> , collected in Palau.	[54]
111	Patellamide C	Marine Tunicate <i>Lissoclinum patella</i> , collected from Palau of the Western Caroline Islands.	[55]
112	Patellamide G	Ascidian <i>Lissoclinum patella</i> , collected in Pohnpei, Federated States of Micronesia.	[56]
113	Patellamide A	Marine Tunicate <i>Lissoclinum Patella</i> , collected from Palau of the Western Caroline Islands.	[57]
114	Patellamide B	Modest general cytotoxicity in the NCI's 60 human tumor cell line panel (average LC ₅₀ values of 48 μ M); <i>in vitro</i> modulation of multidrug resistance in CEM/VBL100 cells.	[55]
115	Patellamide D	Marine tunicate <i>Lissoclinum patella</i> .	[58]

116	Patellamide E	Ascidian <i>Lissoclinum patella</i> , collected at Mildly cytotoxic against human colon tumor cells <i>in vitro</i> . Pulau Salu, Singapore.	[59]
117	Patellamide F	The colonial ascidian <i>Lissoclinum patella</i> , Modest general cytotoxicity in the NCI's 60 human tumor cell line collected around Monte Bello Island, panel (average LC ₅₀ values of 13 μ M). northwest Australia.	[60]
118	Kocurin	Marine-Derived Bacterium <i>Kocuria palustris</i> An excellent inhibitor of Methicillin-resistant <i>Staphylococcus aureus</i> collected in Florida Keys, USA. (MRSA).	[42]
119	Mechercharstatin A	Marine-derived <i>Thermoactinomyces</i> sp. YM3-Strong antitumor activity. 251, isolated from sea mud collected at Mecherchar in the Republic of Palau (North Pacific Ocean).	[15]
120	Urukthapelstatin A	Marine-derived <i>Mechercharimyces asporophorigenens</i> YM11-542, isolated from a sediment sample collected from a marine lake in the northern part of Urukthapel Island in the Republic of Palau.	[61]
121	TP-1161	Marine <i>Nocardiopsis</i> sp., produced by a Strong antibacterial activity. marine sediment-derived <i>Nocardiopsis</i> .	[62]
122	Wewakazole	Coral <i>Lyngbya majuscula</i> , collected from a Inhibited cancer cell proliferation in a dose-dependent manner. shoreline growth of coral (< 1.5 m depth) in Wewak Bay, Papua New Guinea.	[63]
123	Wewakazole B	Cyanobacterium <i>Moorea producents</i> collected Cytotoxic activity toward human MCF7 breast cancer cells (IC ₅₀ = 0.58 μ M); human H460 lung cancer cells (IC ₅₀ = 1.0 μ M). in the Red Sea.	[64]
124	Diazonamide A	Ascidian <i>Diazona chinensis</i> , collected from Potent <i>in vitro</i> activity against HCT-116 human colon carcinoma and the ceilings of small caves along the B-16 murine melanoma cancer cell lines, with IC ₅₀ values less than 15 northwest coast of Siquijor Island, ng/mL.	[65]
125	Diazonamide B	Philippines. --	

126	Diazonamide C	Marine ascidian <i>Diazona</i> sp. collected in	Moderate cytotoxicity against a panel of three human tumor cell	[66]
127	Diazonamide D	Indonesia.	lines, including lung (A549), colon (HT29), and breast (MDA-MB-	
128	Diazonamide E		231).	
129	Ulithiacyclamide	Ascidian <i>Lissoclinum patella</i> , collected from	IC ₅₀ 's of 35 ng/ml against the KB cell line.	[46]
		Palau, Western Caroline Islands.		
130	Ulithiacyclamide B	<i>Lissoclinum patella</i> (SG-5 1) was collected	Exhibits an IC ₅₀ 's of 17 ng/ml against the KB cell line.	[67]
		from dead coral outside and north of Palikir		
		Pass, Pohnpei at a depth of 2040 ft.		
131	Ulithiacyclamide F	Ascidian <i>Lissoclinum patella</i> , collected in	Cytotoxicity against vinblastine-resistat CCRF-CEM human	[56]
		Australia.	leukemic lymphoblasts.	
132	Ulithiacyclamide G	Ascidian <i>Lissoclinum patella</i> , collected in	Cytotoxicity against vinblastine-resistat CCRF-CEM human	
		Pohnpei, Federated States of Micronesia.	leukemic lymphoblasts.	
133	Taumycin A	A Madagasca marine sponge <i>Fascaplysinopsis</i>	Toxic to brine shrimp larvae; inhibited growth of the human UT-7	[68]
		sp.	leukemic cell line.	
134	Discokiolide A	Marine sponge <i>Discodermia kiiensis</i> .	Cytotoxic activities against P388, p388/ADM, B16-BL6, Lewis, Lu-99,	[69]
135	Discokiolide B		HT-29 and CCD-19Lu.	
136	Discokiolide C			
137	Discokiolide D			
138	Phorboxazole A	The Indian Ocean marine sponge <i>Phorbas</i> sp.	High cytotoxic activity and induce cell growth inhibition (GI) in	[70]
139	Phorboxazole B		leukemia.	
140	Hemi-phorboxazole A		A potent Michael acceptor.	[71]
141	Leiodolide A	Marine sponge <i>Leiodermatium</i> , collected at a	Cytotoxic effects on human colon cancer HCT-116, HL-60, NCI-H52	[72]
142	Leiodolide B	depth of 720 feet near Uchelbeluu Reef in	and OVCAR-3 cell lines.	
		Palau.		
143	Salarin C	Madagascan marine sponge <i>Fascaplysinopsis</i>	Inhibit cell proliferation of human leukeamic cell lines UT-7 and	[73]
		sp. collected in Salary Bay, ca. 100 km north	K562 and the murine pro-B cell line Ba/F3.	
		of Tulear.		
144	Salarin F		Cytotoxicity against K562 and UT-7 human leukemia cells.	[74]
145	Salarin I			
146	Theonezolid A	An Okinawan marine sponge <i>Theonella</i> sp.	Cytotoxicity against murine lymphoma L1210 and human	[75]
147	Theonezolid B		epidermoid carcinoma KB cells <i>in vitro</i> .	[76]

148	Theonezolid C			
149	Kabiramide I	A Thai marine sponge <i>Pachastrissa nux.</i>	Moderate antiplasmodial activity against <i>Plasmodium falciparum</i> K1.	[77]
150	Halishigamide B	An Okinawan marine sponge <i>Halichondria</i> sp.	Weak cytotoxicity against L1210 (IC ₅₀ 4.4 µg/mL) and KB cells (IC ₅₀ 7.5 µg/mL) and modest antifungal activity against <i>T. mentagrophytes</i> (MIC 25 µg/mL).	[78]
151	Mycalolide D	An Australian stony coral <i>Tubastrea faulkneri</i> .	Modest cytotoxicity against the NCI's 60-human tumor cell line panel.	[79]
152	Ulapualide A	Nudibranch <i>Hexabranhus sanguineus</i> eggs	Inhibit L1210 leukemia cell proliferation with IC ₅₀ 0.01 - 0.03 µg/mL	[80]
153	Ulapualide B	from the west shore of Oahu (Electric Beach).	and antifungi activity against <i>Candida albicans</i> .	
154	Ulapualide C		Submicromolar cytotoxicity against select NCI cell lines (768-0, DU-145, MDA-MB-231, and A549) with the most potent activity against MDA-MB-231 cells (IC ₅₀ 0.58 µM).	
155	Ulapualide D		Antitumor.	[81]
156	Ulapualide E		Antitumor.	
157	Miuramide A	Marine sponge <i>Mycale</i> sp., collected off	Cytotoxicity against 3Y1 cells.	[82]
158	Miuramide B	Miura Peninsula.		
159	Mycalolide A	Marine sponge <i>Mycale</i> sp., collected from	Antifungal effects on various pathogenic fungi and has cytotoxicity	[83]
160	Mycalolide B	shallow waters (-2 - -5 m) in Gokasho Bay of	on B-16 melanoma cells with IC ₅₀ of 0.5 - 1.0 ng/mL.	
161	Mycalolide C	the Kii Peninsula.		
162	38-hydroxymycalolide B	Marine sponge <i>Mycale magellanica</i> , collected	Cytotoxic against L1210 cells.	[84]
163	30-hydroxymycalolide A	at a depth of 15 m off Kumomi on the Izu		
164	32-hydroxymycalolide A	Peninsula.		
165	30,32-dihydroxymycalolide A	Marine sponge <i>Mycale izuensis</i> , collected in	Cytotoxic against HeLa cells with an IC ₅₀ value of 2.6 ng/mL.	[85]
		the Amakusa Islands 1700 km southwest of Tokyo.		
166	Halichondramide	A Pacific marine sponge <i>Halichondria</i> sp.	Significant activity against <i>Candida albicans</i> .	[86]
167	iso-halichondramide	Marine sponge <i>Halichondria</i> , from Palau,	Antifungal activity and inhibit cell division in the fertilized sea urchin egg assay.	[87]
168	(19Z)-halichondramide	Marine sponge <i>Chondrosia corticata</i> , collected	Significant cytotoxicity toward the human leukemia cell line K562.	[88]
		from Guam.		

169	Dihydrohalichondramid	Nudibranch <i>Hexabranchnus sanguineus</i> , from Kwajalein Atoll, Marshall Islands.	Inhibited L1210 leukemia cell proliferation.	[87]
170	33-Methyltetrahydrohalichondramide	Nudibranch <i>Hexabranchnus sanguineus</i> , collected from the Indo-Pacific.	Antifungal activity.	[47]
171	Jaspisamide A	Marine sponge <i>Jaspis</i> sp., collected by scuba off Ishigaki Island, Okinawa.	<i>In vitro</i> cytotoxicity against L1210 murine leukemia cells and KB human epidermoid carcinoma cells.	[89]
172	Jaspisamide B			
173	Jaspisamide C			
174	Halishigamide A	An Okinawan marine sponge <i>Halichondria</i> sp.	Potent cytotoxic activity against murine lymphoma L1210 and human epidermoid carcinoma KB cells (IC ₅₀ 0.0036 and 0.012 µg/mL, respectively) and antifungal activity against <i>Trichophyton mentagrophytes</i> (MIC 0.1 µg/mL).	[78]
175	Neohalichondramide	Marine sponge <i>Chondrosia corticata</i> , collected from Guam.	Exhibited significant cytotoxicity toward the human leukemia cell line K562.	[88]
176	Thiomycalolide A	Marine sponge <i>Mycale</i> sp., collected off the Kii Peninsula, 330 km southwest of Tokyo.	Highly cytotoxic against P388 murine leukemia cells.	[90]
177	Thiomycalolide B			
178	Halichondramide acid	Marine sponge <i>Halichondria</i> , from Palau,-- Western Caroline Islands.		[87]
179	Mycalolide E	An Australian stony coral <i>Tubastrea faulkneri</i> .	Modest general cytotoxicity against the NCI's 60-human tumor cell line panel.	[83]
180	Kabiramide A	<i>Henabranchnus</i> egg masses, collected at Kabira Bay, Ishigaki Island of the Ryukyus, and Hachijo Island of the Izu Archipelago.	Strongly active in the sea urchin egg assay; cytotoxic against L1210 cells.	[90]
181	Kabiramide D; 3-Carbamoyl	Nudibranch egg masses, collected at Kabira Bay in Ishigaki-jima Island of the Ryukyus.	Marked antifungal activity.	[91]
182	Kabiramide E	<i>Henabranchnus</i> egg masses, collected at Kabira Bay, Ishigaki Island of the Ryukyus, and Hachijo Island of the Izu Archipelago.	Strongly active in the sea urchin egg assay; cytotoxic against L1210 cells.	[90]

183	Tetrahydrohalichondramide	Nudibranch <i>Hexabranhus sanguineus</i> , from Kwajalein Atoll, Marshall Islands.	Antifungal activity; inhibit cell division in the fertilized sea urchin egg assay.	[87]
184	9-O-desmethylnudibramide B	Nudibranch <i>Hexabranhus sanguineus</i> , collected from the Indo-Pacific.	Antifungal activity.	[47]
185	Kabiramide B	Marine sponge <i>Pachastrissa nux</i> , collected from several other locations in the Gulf of Thailand.	Strong antimalarial and cytotoxic activities.	[92]
186	Kabiramide C			
187	Kabiramide D			
188	Kabiramide F	A Thai marine sponge <i>Pachastrissa nux</i> .	Cytotoxic against L1210 cells (IC ₅₀ 0.02 µg/mL).	[77]
189	Kabiramide G	Marine sponge <i>Pachastrissa nux</i> , collected from several other locations in the Gulf of Thailand.	Moderate to strong antimalarial; cytotoxic activities.	[92]
190	Kabiramide J			
191	Kabiramide K			
192	Kabiramide L		Moderate antiplasmodial activity against <i>Plasmodium falciparum</i> K1.	[93]
193	Neopeltolide	A deep-water sponge of the family <i>Neopeltidae</i> , collected off the north Jamaican coast.	Inhibitory activity against <i>C. albicans</i> ; <i>in vitro</i> inhibit the proliferation of the A-549 human lung adenocarcinoma, the NCI-ADR-RES human ovarian sarcoma, and the P388 murine leukemia cell lines.	[94]
194	Leucascandrolide A	Marine sponge <i>Leucascandra caveolata</i> , collected along the east coasts of New Caledonia, Coral Sea.	A strong cytotoxic activity on KB cells <i>in vitro</i> ; inhibitory activity against <i>C. albicans</i> .	[95]
195	Enigmazole A	Marine sponge <i>Cinachyrella enigmatica</i> , isolated from a Papua New Guinea.	Cytotoxic to tumor NCI 60-cell line.	
196	15-O-methylenigmazole A		--	[96]
197	13-hydroxy-15-O-methylenigmazole A		--	
198	Calyculin A	Marine sponge <i>Discodermia calyx</i> , collected in the Gulf of Sagami at a depth of 5-15 m.	Significant activity in the starfish <i>Asterina pectinifera</i> and sea urchin <i>Hemicentrotus pulcherrimus</i> ; highly cytotoxic against L1210 leukemia cells.	[97]
199	Des-N-methyl calyculin A	Marine sponge <i>Discodermia calyx</i> , collected by SCUBA at depths of 15 - 20 m off the Izu Peninsula.	Inhibited protein phosphatase 2A with an IC ₅₀ value of 49 nM.	[98]

200	Calyculin B	Marine sponge <i>Discodermia calyx</i> , collected in	Significant activity in the starfish <i>Asterina pectinifera</i> and sea urchin	
201	Calyculin C	the Gulf of Sagami at a depth of 5 - 15 m.	<i>Hemicentrotus pulcherrimus</i> ; highly cytotoxic against L1210 leukemia	[99]
202	Calyculin D		cells.	
203	Calyculin E		Potent inhibitors of protein phosphatases 1 and 2A: effective doses	
204	Calyculin F		for 50% inhibition of protein phosphatases 2A activity for these	[100]
205	Calyculin G		calyculins were 2.7 - 6.0 nM.	
206	Calyculin H			
207	Dephosphonocalyculin A	Marine sponge <i>Discodermia calyx</i> , collected by	Inhibits protein phosphatases 1 and 2A with IC ₅₀ values of 3.0 and	[101]
		SCUBA off the Izu Peninsula.	8.2 nM, respectively.	
208	Calyculinamide A	Marine sponge <i>Lamellomorpha strongylata</i> , Inhibited protein phosphatase 2A.		
		collected by benthic dredging at -80 to -100		[102]
		m along the top of the Mernoo Bank, within		
		the Chatham Rise convergence zone.		
209	Calyculinamide F	Marine sponge <i>Discodermia calyx</i> , collected	Inhibited protein phosphatase 2A.	
		by SCUBA at depths of 15 - 20 m off the Izu		[98]
		Peninsula.		
210	Calyculinamide B	Marine sponge <i>Lamellomorpha strongylata</i> , A potent cell-growth inhibitor.		
		collected by benthic dredging at -80 to -100		[102]
		m along the top of the Mernoo Bank, within		
		the Chatham Rise convergence zone.		
211	Clavosine A	Marine sponge <i>Myriastrra clavosa</i> , collected in	Potent cytotoxic in the National Cancer Institute's screening panel of	
212	Clavosine B	1993 from Chuuk, Federated States of	60 tumor cell lines; potent inhibitors of the type 1 and 2A	
		Micronesia.	serine/threonine protein phosphatases.	[103]
213	Clavosine C	--		
214	Geometricin A	Marine sponge <i>Luffariella geometrica</i> , Moderately cytotoxic activity to tumor cell lines HM02 and HEPG2;		
		collected at Heron Island's, Wistari Reef,	antialgal activity.	[104]
		Australia.		
215	Swinhoieamide A	Marine sponge <i>Theonella swinhoei</i> , collected	Insecticidal activity toward neonate larvae of the polyphagous pest	
		by diving at a depth of 50 m near the coast of	insect <i>Spodoptera littoralis</i> when incorporated in an artificial diet	[105]
		the Karkar Island, Papua New Guinea.	offered to the larvae in a chronic feeding bioassay (ED ₅₀ 2.11 ppm,	

			LD ₅₀ 2.98 ppm; inhibitory activity against <i>Candida albicans</i> and <i>Aspergillus fumigatus</i> (MIC 1.2 and 1.0 µg/mL, respectively).	
216	Calyculin J	Marine sponge <i>Discodermia calyx</i> , collected by SCUBA at depths of 15 - 20 m off the Izu Peninsula.	Inhibited protein phosphatase 2A.	[98]
217	Inthomycin B	<i>Streptomyces</i> sp. YB104, obtained from a deep-sea sediment sample collected from the South Atlantic Ocean at (19.57 °S, 11.97°W; -2699 m).	Antimicrobial activity.	[106]
218	seco-halichondramide	Marine sponge <i>Chondrosia corticata</i> , collected from Guam.	Weak cytotoxicity toward the human leukemia cell line K562.	[88]
219	Halishigamide C	An Okinawan marine sponge <i>Halichondria</i> sp.	Weak cytotoxicity against L1210 (IC ₅₀ 5.2 and 1.1 µg/mL) and KB cells (IC ₅₀ 6.5 and 1.8 µg/mL); modest antifungal activity against <i>T. mentagrophytes</i> (MIC 25 and 6.5 µg/mL).	[78]
220	Halishigamide D			
221	Kabiramide H	A Thai marine sponge <i>Pachastrissa nux</i> .	Cytotoxic.	[77]
222	Hennoxazole A	Marine sponge <i>Polyfibrospongia</i> sp., collected from Agarihennazaki on the island of Miyako, Okinawa, Japan.	Antiviral; active against herpes simplex virus type 1 (IC ₅₀ 0.6 µg/mL); peripheral analgesic activity.	
223	Hennoxazole B		Antiviral activity.	[107]
224	Hennoxazole C			
225	Hennoxazole D			
226	Hennoxazole A; 4-Ac		--	
227	Hennoxazole A; O2-De-Me (Hennoxazole E)		Cytotoxic against L1210.	[108]
228	Hennoxazole F		Cytotoxic at a level of IC ₅₀ 2 µg/mL against L1210.	
229	Hennoxazole G		Cytotoxic against L1210.	
230	Antibiotic B-90063	Marine Bacterium <i>Blastobacter</i> sp. SANK 71894, isolated from sea water collected on the coast of Ojika Peninsula, Miyagi Pref., Japan.	An endothelin converting enzyme inhibitor.	[109]
231	R ₁ =C(=O)(CH ₂) ₁₄ CH ₃ ,	Marine sponge <i>Pachastrissa</i> sp. collected by	Strong active against <i>C. albicans</i> .	[110]

232	$R_2=R_3=R_4=H$ $R_4=C(=O)(CH_2)_{14}CH_3,$ $R_1=R_2=R_3=H$	scuba at Musha Archipelago, Republic of Djibouti, in a rocky slope at water deeper than 25 m.	
233	$R_1=C(=O)(CH_2)_{12}CH(CH_3)_2,$ $R_2=R_3=R_4=H$		
234	$R_4=C(=O)(CH_2)_{12}CH(CH_3)_2,$ $R_1=R_2=R_3=H$		
235	$R_1=C(=O)(CH_2)_{13}CH_3,$ $R_2=R_3=R_4=H$		
236	$R_4=C(=O)(CH_2)_{13}CH_3,$ $R_1=R_2=R_3=H$		
237	Bengazole A	Marine sponge of the <i>Choristida</i> order, obtained from new locations in the Benga Lagoon, Fiji.	Inhibition against two human tumor cell lines including colon, COLO-205 <i>in vitro</i> ; anthelmintic activity; antifungal activity against <i>C. albicans</i> . [111]
238	Bengazole B		Antifungal activity against <i>C. albicans</i> .
239	Bengazole C	Marine sponge <i>Jaspis</i> sp., from the Great Barrier Reef.	Antifungal assay against <i>C. albicans</i> .
240	Bengazole D		
241	Bengazole E		[112]
242	Bengazole F		
243	Bengazole G		
244	Bengazole B1		[113]
245	Bengazole Z	--	[114]
246	Bengazole C ₂	Marine sponge <i>Choristid</i> , collected in Papua New Guinea.	Antifungal; cytotoxic; antiparasitic; tumor-promoting agents.
247	Bengazole D ₂		
248	Bengazole C ₃		
249	Bengazole D ₃		[115]
250	Bengazole C ₄		
251	Bengazole D ₄		
252	Bengazole C ₆		

253	Digonazole	Marine sponge <i>Jaspis digonoxea</i> , collected in Sodwana Bay, South Africa.	Antifungal activity against <i>C. albicans</i> . [116]
254	5-epi-Nakijinol C	Marine sponge <i>Dactylospongia metachromia</i> , collected at Ambon, Indonesia.	Strong inhibitory activity against ALK, FAK, IGF1-R, SRC, VEGF-R2, Aurora-B, MET wt, and NEK6 kinases. [117]
255	(+)-5-epi-nakijinol D	--	
256	(+)-5-epi-nakijinol E	An Indonesian marine sponge <i>Smenospongia</i> .	Cytotoxic activity on colon cancer cells. [118]
257	Nakijinol	Marine sponge of the family <i>Spongiidae</i> , collected off Nakijin, Okinawa Island.	[119]
258	(-)-Nakijinol E	An Indonesian marine sponge <i>Smenospongia</i> .	Cytotoxic activity on colon cancer cells. [118]
259	Nakijinol B	Marine sponge <i>Dactylospongia elegans</i> , collected from Pugh Shoal, northeast of Truant Island, NT.	Cytotoxicity against a panel of human tumor cell lines (SF-268, H460, MCF-7, and HT-29) and a normal mammalian cell line (CHO-K1). [120]
261	Nakijinol E	Marine sponge <i>Hyrtios</i> sp., collected off Yongxing Island in the South China Sea.	Anti-inflammatory. Antitumor. [121]
262	Nakijinol F		PTP1B inhibitory activity with an IC ₅₀ value of 4.8 μM.
263	Nakijinol G		
264	Nocarbenzoxazole A	A saltmarsh soil sample, <i>Nocardiopsis lucentensis</i> DSM 44048.	Antimicrobial activity; antibiotic activity.
265	Nocarbenzoxazole B		Antimicrobial activity; antibiotic activity.
266	Nocarbenzoxazole C		Antimicrobial activity; antibiotic activity.
267	Nocarbenzoxazole D		Antimicrobial activity; antibiotic activity.
268	Nocarbenzoxazole E		Antimicrobial activity; antibiotic activity.
269	Nocarbenzoxazole F		Anti-inflammatory.
270	Nocarbenzoxazole G		Selective activity against HepG2 and HeLa cell lines.
271	Coixol	Marine sponge <i>Oceanapia</i> sp., collected at a depth of 20 ft by skin diving near Mandapam coast (N 17°, E 83°) India.	Active against brine shrimp assay. [123]
272	Homopseudopteroxazole	Sea plume <i>Pseudopterogorgia elisabethae</i> ,	A strong growth inhibitor of <i>Mycobacterium tuberculosis</i> H37Rv. [124]

		collected by scuba during an expedition to San Andre's Island, Colombia.	
273	Pseudopteroxazole	Sea whip <i>Pseudopterogorgia elisabethae</i> , Effect potent inhibitory activity (97%) against <i>M. tuberculosis</i> H37Rv collected near San Andre's Island, Colombia. at a concentration of 12.5 µg/mL.	[125]
274	<i>seco</i> -pseudopteroxazole	Inhibited 66% of mycobacterial growth.	
275	Ileabethoxazole	Sea whip <i>Pseudopterogorgia elisabethae</i> 92% inhibition of <i>Mycobacterium tuberculosis</i> (H37Rv) at the removed by scuba from their natural habitat concentration range of 128 - 64 µg/ mL . at depths of 25 - 30 m near the Island of Providencia (Old Providence), Colombia.	[126]
276	Oxazocurcuphenol	Soft coral <i>Pseudopterogorgia rigida</i> , collected-- by SCUBA diving southeast of Lighthouse Point in Eleuthera island in the Bahamas, at a depth of 20 - 30 m.	[130]
277	Citharoxazole	Marine sponge <i>Latrunculia (Biannulata)-- citharistae</i> , found at depths around 130 - 150 m in the western Mediterranean sea.	[127]
278	Herqueioxazole	Marine-derived fungus <i>Penicillium</i> sp. from a Marginally active against the lung carcinoma A549 cell line. marine sediment.	[128]
279	Nakijinamine C	An Okinawan marine sponge <i>Suberites</i> sp. Antifungal activity against <i>Aspergillus niger</i> with MIC values of 16 µg/mL .	[129]
280	Nakijinamine E		
281	Caboxamycin	<i>Streptomyces</i> sp. NTK 937, isolated from an Antibiotic activity; a moderate growth inhibitory activity towards Atlantic Ocean deep-sea sediment core. AGS, HepG2 and MCF7.	[130]
282	Hamigeran M	Marine sponge <i>Hamigera tarangaensis</i> , The high efficacy against HL-60 promyelocytic leukemia cell line. collected from Cavalli Island, New Zealand.	[131]
283	Citreamicin 0A	Marine-derived <i>Streptomyces</i> sp., isolated Antibacterial activity against <i>Staphylococcus haemolyticus</i> , from the coastal water of the red sea by the <i>Staphylococcus aureus</i> , and <i>Bacillus subtilis</i> with MIC of 0.25 µg/mL.	[132]
284	Citreamicin 0B	side of a fish market near Jeddah.	
285	Ergosinine	Sea slug <i>Pleurobranchus forskalii</i> , collected off-- Ishigaki Island, Japan.	[133]

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