

**Table S1:** compounds isolated from different genera of family Hymedesmiidae

No.	Name	Chemical nature	Biological source	Biological activity	Ref.
1	Anchinopeptolide A				
2	Anchinopeptolide B				
3	Anchinopeptolide C		<i>Phorbas tenacior</i>		
4	Anchinopeptolide D			Displace specific ligand from their receptor	1
5	Zarzissine	Alkaloid	<i>phorbas</i> <i>paupertas</i>	Antitumor and anti-microbial	2
6	Phorbatopsin A		<i>Phorbas topsenti</i>		
7	Phorbatopsin B			Anti-oxidant	3
8	Phorbatopsin C				
9	Phorbasin B				
10	Phorbasin C				
11	Phorbasin D		<i>Phorbas</i> sp.		
12	Phorbasin E			Antitumor	4
13	Phorbasin F				
14	Phorbasin G				
15	Phorbasin H	Diterpene		Antitumor and inhibits <i>C. albicans</i> virulence factor	
16	Phorbasin I		<i>Phorbas</i> <i>gukulensis</i>	Antitumor	4, 5
17	Phorbasin J				
18	Phorbasin K				4
19	Gagunin A				
20	Gagunin B			Antitumor	
21	Gagunin C				6, 7
22	Gagunin D			Antitumor and anti-melanogenic	

23	Gagunin E				6, 7, 8
24	Gagunin F	Diterpene			
25	Gagunin G				
26	Gagunin H				
27	Gagunin I				
28	Gagunin J		<i>Phorbas</i> sp.		
29	Gagunin K				
30	Gagunin L				6, 7
31	Gagunin M				
32	Gagunin N				
33	Gagunin O			Antitumor	
34	Gagunin P				
35	Gagunin Q				
36	Gukulenin A				
37	Gukulenin B				9, 10, 11
38	Gukulenin C	Tetraterpenoid	<i>Phorbas</i>		9
39	Gukulenin D		<i>gukhulensis</i>		
40	Gukulenin E				10
41	Gukulenin F				
42	Phorbaketal A			Cytotoxic and anti-inflammatory	10
43	Phorbaketal B				12, 13
44	Phorbaketal C				
45	Phorbaketal derivative				
46	Phorbaketal L			Cytotoxic	
47	Phorbaketal N				12
48	Alotaketal C		<i>Phorbas</i> sp.	Anti-viral And activate cAMP signaling pathway	
49	Alotaketal D			Anti-viral	14, 15
50	Ansellone A			Anti-viral and activate cAMP signaling pathway	14
51	Anvilone A	Sesterterpenoid		Anti-viral	14, 15

52	Ansellone B1				14
53	Phorbasone A acetate			Anti-inflammatory	16
54	Isosuberitenone B				16
55	19- episuberitenone B				
56	Isoxaspirosuberit-enone				
57	Suberitenone B		<i>Phorbas areolatus</i>	Cytotoxic	17
58	Oxaspirosuberite-none	Sesterterpenoid	<i>Phorbas areolatus</i>	Cytotoxic and antimicrobial	17
59	Phorbasterone A				
60	Phorbasterone B		<i>Phorbas</i>		
61	Phorbasterone C	Steroid	<i>amaranthus</i>	Cytotoxic	18
62	Phorbasterone D				
63	Phorboxazole A			Antimicrobial	
64	Phorboxazole B	Macrolide			19
65	Phorbaside A		<i>Phorbas</i> sp.		
66	Phorbaside C	Macrolide			
67	Phorbaside D	glycoside		Cytotoxic	20
68	Phorbaside E				
69	Astaxanthin				
70	Adonirubin		<i>Phorbas topsenti</i>		3
71	Taurine			Antioxidant	
72	Taurobetain				
73	p-hydroxybenzalde-hyde		<i>Phorbas paupertas</i>	Antioxidant	2
74	Hamigeran A			Cytotoxic	
75	Hamigeran B			Cytotoxic, Antiviral and anti-microbial	
76	Hamigeran C		<i>Hamigera</i>	Cytotoxic and	21, 22,23
77	Hamigeran D	Diterpene	<i>tarangaensis</i>	anti-microbial	
78	Debromohamiger-an A				
79	4-bromohamigera A			Cytotoxic activity	
80	4-bromohamigeran B				
81	Debromohamiger-an B				

82	Hamigeran F				Cytotoxic	
83	Hamigeran G				Cytotoxic and anti-microbial	
84	Hamigeran H					
85	Hamigeran I					
86	Hamigeran J					
87	Hamigeran K					
88	Hamigeran L					
89	Hamigeran M					
90	Hamigeran N			<i>Hamigera</i>		21, 22,23
91	Hamigeran O	Diterpene		<i>tarangaensis</i>		
92	Hamigeran P					
93	Hamigeran Q				Cytotoxic	
94	Debromohamiger-an I					
95	Debromohamiger-an J					
96	4-bromohamigeran K					
97	Hamigeran L 11-O-methyl ester					
98	Hamigeran L 12-O-methyl ester					
99	10-epihamigeran K					
100	18-epihamigeran N					
101	18-epihamigeran P					
102	19-epihamigeran Q			<i>Hamigera</i>	Cytotoxic	21, 22,23
		Diterpene		<i>tarangaensis</i>		
103	Alotaketala A	Sesterterpenoid			Activate cAMP cell signaling pathway	
104	Alotaketala B			<i>Hamigera</i> sp.		24
105	Variolin A				Antitumor	
106	Variolin B			<i>Kirkpatrickia</i>	Antitumor and antiviral	25
107	N (3')-methyltetrahydrovariolin B			<i>variolosa</i>	Antitumor and anti-microbial	

108	Ptilomycaline A		<i>Hemimycale</i> sp.	Antitumor , antiviral and antifungal	26, 27
		Alkaloid			
109	(Z)-5-(4- hydroxybenzylidene)- hydantoin			Antitumor and anti-microbial	28, 29
110	Hemimycalin A				30, 31
111	Hemimycalin B		<i>Hemimycale</i>	Anti-microbial	31
112	[1,3]-diazepan-2-one		<i>arabica</i>		
113	(S)-1,4-diaza- cyclododecane-2,3-dion	-		Antitumor and hypoglycemic	31
114	Cycloanchinopep-tolide C			—	32
115	Anchinopeptolide E		<i>Phorbas tenacior</i>	—	33
116	Phorbazole A			—	
117	Phorbazole B		<i>Phorbas clathrata</i>	—	
118	Phorbazole C	Alkaloid		—	34
119	Phorbazole D			—	
120	Hemi- phorbaxazole A	Macrolide			35
121	Phorbasin A		<i>Phorbas</i> sp.	—	36
122	Phorbasin G1		<i>Phorbas</i>		
123	Phorbasin H1	Diterpene	<i>gukulensis</i>		37, 52
124	Phorbasin I1				
125	Phorbasin H dervative			—	6
126	Phorbaside B			—	20
127	Phorbaside F			—	38
128	Phorbaside G	Macrolide	<i>Phorbas</i> sp.	—	
129	Phorbaside H	glycoside		—	39
130	Phorbaside I			—	
131	Anthosterone A		<i>Phorbas</i>	—	
132	Anthosterone B	Steroid	<i>amaranthus</i>	—	18
133	Secoepoxy ansellone A			—	15
134	Ansellone B			—	15
135	Ansellone C			—	
136	Ansellone D	Sesterterpenoid	<i>Phorbas</i> sp.	—	
137	Ansellone E			—	40
138	Ansellone F			—	
139	Ansellone G			—	

140	Amaranzole A	N- imidazolyl steroid	<i>Phorbas amaranthus</i>	—	41
141	Amaranzole B			—	
142	Amaranzole C			—	
143	Amaranzole D	N- imidazolyl		—	42
144	Amaranzole E	steroid	<i>Phorbas</i>	—	
145	Amaranzole F		<i>amaranthus</i>	—	
146	Amaroxocane A	Steroid		—	
147	Amaroxocane B			—	43
148	6-(p-hydroxyphenol)-2H- 3,4-dihydro-1,1-dioxo-1,4- Thiazine			—	
149	Tripeptide L-Glu-Glp-4- Hydroxystirylami-ne		<i>Phorbas tenacior</i>	—	44
150	Muironolide A			—	45
151	Phorone A		<i>Phorbas sp.</i>	—	
152	Isophorbasone A			—	16
153	Phorbadione			—	15
154	Suberitenone A	Sesterterpenoid	<i>Phorbas areolatus</i>	—	17
155	Anvilone B			—	40
156	Alotaketala E		<i>Phorbas sp.</i>	—	
157	Variolin D	Alkaloid	<i>Kirkpatricka</i>	—	26
158	3,4',5-triacetoxystilbene		<i>varialosa</i>	—	46
159	3 $\beta$ ,4 $\beta$ -dihydroxy-pregn-5- en-20-one-3-sulfate	Sterol	<i>Hymedesmia aistralis</i>	—	47
160	bromo benzocyclooctane			—	48
161	12-Acetoxy-13-epi- neoverrucosan-5-one		<i>Hamigera tarangaensis</i>	—	
162	Hamigeran E			—	21
163	Debromohamigeran E	Diterpene		—	49

164	Hamigeramine A	Alkaloid		—	
165	Hamiguanasinol A	Nucleoside		—	49
166	Hamigerol A		<i>Hamigera hamigera</i>	—	50
167	Hamigerol B	Sterol		—	
168	24 ethyl -5 $\alpha$ -cholest-7-en-3 $\beta$ -ol			—	
169	P-hydroxy cinnamaldehyde			—	51
170	Diosphenol hamigeran G			—	
171	Hamigeran A ethyl ester			—	
172	18-epi-hamigeran Q	Diterpene	<i>Hamigera tarangaensis</i>	—	21 22
173	Hamigeran R		<i>Hamigera</i>	—	
174	Hamigeran S	Diterpene	<i>tarangaensis</i>	—	23
175	(R)-5-(4-hydroxybenzyl)hydantoin			—	
176	(Z)-5-((6-bromo-1H-indol-3-yl)methylene)-hydantoin			—	
177	4-acetamido-2,6-dibromo-4-hydroxy-1,1-dimethoxycyclohexa-2,5-diene			—	
178	2,4-bis(1-methyl-1-phenylethyl)-phenol			—	
179	$\beta$ - Sitosterol		<i>Hemimycale arabica</i>	—	32
180	Bis-[2-ethyl]-hexyl-phthylester			—	
181	Linoleic acid			—	

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52. Indeed, there has been a lack of continuity in the naming of the phorbasins in the literature. The name phorbasins (G-I) (14-16) were coined in **2008** by Zhang, et al. (Phorbasins G-K: New cytotoxic diterpenes from a southern Australian marine sponge, *Phorbas* sp. ) and also used for a different structure in **2008** by Lee, et al (Phorbasins G--I: three new diterpenoids from the sponge *Phorbas gukulensis* *Chemical and Pharmaceutical Bulletin*, 2008, **56**, 1198-1200). We therefore propose the renaming of Hyi-Seung LEE, 2008 compounds as phorbasins (G1-I1) (122-124).