

Table S3. Polyketides from endophytic fungi and their biological activities, metabolite class, fungus, host plant(s), reference.

Metabolite Class	Fungus	Host Plant(s)	Compounds Isolated	Biological Target	Biological Activity	Reference
Simple pyranones	<i>Aspergillus versicolor</i> Y10	<i>Huperzia serrata</i>	Avertoxin A (145)	AChE inhibitory activity	Inactive	45
			Avertoxin B (146)		IC ₅₀ , 0.6 μM	
			Avertoxin C (147)			
			Avertoxin D (148)		Inactive	
			Asteltoxin (149)			
	<i>Xylaria</i> HNWSW-2	sp. <i>Xylocarpus granatum</i>	Astropyrone (150)	AChE inhibitory activity	Inhibition rates of 10.4% at 50 μg/mL	46
	<i>Bipolaris</i> LK12	<i>sorokiniana</i> <i>Rhazya stricta</i>	Bipolarisenol (151)	AChE inhibitory activity	IC ₅₀ , 67.23 ± 5.12 μg/mL	47
	<i>Botryosphaeria</i> KJ-1	<i>dothidea</i> <i>Melia azedarach</i> L	Pycnophorin (152)	DPPH radical-scavenging	free Scavenging rate of 22.5% at 50 μM	34
	<i>Chaetomium globosum</i>	<i>Panax notoginseng</i>	Chaetomugilin A (153)	DPPH radical-scavenging	free EC ₅₀ >100 μg/mL	17
			Chaetomugilin D (154)			
Benzopyrones	<i>Xylomelasma</i> Samif07	sp. <i>Salvia miltiorrhiza</i> Bunge	Hydroxylchromone (155)	Hydroxyl radical-scavenging activity	Inactive	48
			6-Hydroxymethyleugenin (156)			
			6-Methoxymethyleugenin (157)			
			Chaetoquadrin D (158)		EC ₅₀ , 15.1 μg/mL	
			Isoeugenitol (159)			
			Diaporthin (160)			
			8-Hydroxy-6-methoxy-3-methyli socoumarin (161)		Inactive	
			6-Methoxymellein (162)			

		(R)-6-Hydroxymellein (163)	AChE inhibitory activity	IC ₅₀ > 100 μM	49
<i>Phaeosphaeria</i> sp. LF5	<i>Huperzia. serrata</i>	6,8-Dihydroxy-3-(10R, 20R-Dihydroxypropyl)-isocoumarin (164)			
		6-Dydroxy-8-methoxy-3-methylisocoumarin (165)			
		De-O-methyldiaporthin (166)		IC ₅₀ , 21.18 μM	
<i>Penicillium</i> sp.2/ <i>Hyalodendriella</i> sp. Ponipodef 12	<i>Alibertia macrophylla</i> (Rubiaceae)/ <i>Populus deltoides</i> Marsh × <i>P. nigra</i> L. L	4-Dydroxymellein (167)	AChE inhibitory activity	MIC, 30 μg	25, 50
<i>Penicillium</i> sp.2	<i>Alibertia macrophylla</i> (Rubiaceae)	8-Methoxymellein (168) 5-Hydroxymellein (169)		MIC > 100 μg	25
<i>Hyalodendriella</i> sp. Ponipodef 12	'Neva' of <i>Populus deltoides</i> Marsh × <i>P. nigra</i> L. L	Palmariol B (170)	AChE inhibitory activity	IC ₅₀ : 115.31, 135.52, and 10.3.7 μg/mL, respectively	50, 51
		Alternariol 9-methyl ether (171)			
		Botrallin (172)		IC ₅₀ > 200 μg/mL	50, 51, 52
		Hyalodendriol A (173)			
		Hyalodendriol B (174)		IC ₅₀ , 21.1 μg/mL	
		Hyalodendriol C (175)			
		Rhizopycnin D (176)		IC ₅₀ > 200 μg/mL	50, 51
		Penicilliumolide D (177)			
		TMC-264 (178)		IC ₅₀ : 89.7 and 49.6 μg/mL, respectively	
		Penicilliumolide B (179)			
		Alternariol (180)		IC ₅₀ > 200 μg/mL	
		Graphislactone A (181)			

<i>Microsphaeropsis olivacea</i>	<i>Pilgerodendron uviferum</i> (D. Don) Florin ("Cipres de las Guaitecas")	Graphislactone A (182)	AChE inhibitory activity	IC ₅₀ , 8.1, 88, and 27µg/mL, respectively	52
		Graphislactone A diacetate (183)			
		Botrallin diacetate (184)			
<i>Colletotrichum</i> sp. CRI535-02	<i>Piperornatum</i>	Monocerin (185)	DPPH scavenging activity, ORAC antioxidant activity	DPPH, IC ₅₀ > 324 µM, ORAC, 10.8 ORAC unit	53
		Monocerin demethylated derivative (186)		DPPH, IC ₅₀ = 23.4 µM, ORAC, 11.5 ORAC unit	
		Fusarentin 6,7-dimethyl ether (187)		DPPH, IC ₅₀ > 322 µM, ORAC, 14.4 ORAC unit	
		Fusarentin 6-methyl ether (188)		DPPH, IC ₅₀ = 16.4 µM, ORAC, 1.4 ORAC unit	
		Fusarentin derivative (189)		DPPH, IC ₅₀ > 306 µM, ORAC, 1.4 ORAC unit	
		Phthalide (190)		DPPH, IC ₅₀ > 324 µM, ORAC, 2.4 ORAC unit	
<i>Penicillium brefeldianum</i> F4a	<i>Houttuynia cordata</i>	Penialidin A (191)	ABTS ⁺ scavenging activity	EC ₅₀ , 14.54 ± 0.46 µM	31
		Penialidin F (192)	DPPH and ABTS ⁺ scavenging activity	EC ₅₀ , 28.42 ± 3.16 and 7.61 ± 0.46µM, respectively	
		Myxotrichin C (193)		EC ₅₀ , 30.07 ± 2.83 and 14.96 ± 2.57µM, respectively	
<i>Phomopsis</i> sp. 33#.	<i>Rhizophora stylosa</i>	Phomopsichin A (194)	AChE inhibitory activity and DPPH scavenging activity	AChE inhibitory rates: 38.4%, 2.7%, 9.1% and 11.3% at 250 µM, respectively. DPPH inhibitory rates:	54
		Phomopsichin B (195)			
		Phomopsichin C (196)			
		Phomopsichin D (197)			

				18.0%, 25.3%, 52.0% , and 17.0% at 1 mM, respectively	
		Phomoxanthone A (198)	DPPH scavenging activity	Inhibitory rate of 40% at 1mM	
<i>Penicillium</i> sp. FJ-1	<i>Acanthus ilicifolius</i> Linn.	(2R,3S)-Pinobanksin-3-cinnamate (199)	Neuroprotection on corticosterone-damaged PC12 cells	Increasing the viability of cells	55
<i>Alternaria</i> sp	<i>Maianthemum bifolium</i>	Bialternacin A (200)	AChE inhibitory activity	Inactive	56
		Bialternacin E (201)		IC ₅₀ , 15.5 μM	
		Bialternacin F (202)		Inactive	
Pyranyl derivatives		Peniaphilone A (203)	Neuroprotection on glutamate-induced HT22 cells injuries	Inactive	39
		Peniaphilone B (204)		-	
		Peniaphilone C (205)		Recovering cell vialibity more than 80% at 25 and 50 μM	
		Peniaphilone D (206)		Inactive	
		Peniaphilone E (207)			
		Peniaphilone F (208)		Recovering more than 80% at 25 and 50 μM	
		Dechloroisochromophilone III (209)		Showing protective effects at 50 μM	
		Peniaphilone G (210)		Inactive	
		Peniaphilone H (211)			
		Peniaphilone I (212)			
				Isochromophilone V (213)	

<i>Penicillium chermesinum</i> (ZH4-E2)	<i>Kandelia candel</i>	Chermesinone A (214)	AChE inhibitory activity	IC ₅₀ > 100 μM	57	
		Chermesinone B (215)				
		Chermesinone C (216)				
<i>Saccharicola</i> sp.	<i>Eugenia jambolana</i>	2,2-Dimethyl-2H-chromene-6-carboxylic acid (217)	huAChE-ICER and eeAChE-ICER inhibition activities	Inactive IC ₅₀ , 0.037 ± 0.01 and 0.026 ± 0.005 mg/mL	58	
		<i>trans</i> -3,4-Dihydro-3,4-dihydroxy-anofinic acid (218)				
Quinones		1,3-Dihydroxy-2,8-dimethoxy-6-methylanthraquinone (219)	Neuroprotection on glutamate-induced HT22 cell death	Inactive	59	
<i>Colletotrichum</i> JS-0367	sp.	<i>Morus alba</i> (mulberry)				1-Hydroxy-2,3,8-trimethoxy-6-methylanthraquinone (220)
						1,2-Dihydroxy-3,8-dimethoxy-6-methylanthraquinone (221)
		Evariquinone (222)		Strong protective effects		
<i>Epicoccum nigrum</i>	<i>Entadaabyssinica</i> Steud. ex A. Rich., Fabaceae	Quinizarin (223)	ABTS and DPPH scavenging activities	IC ₅₀ , 10.86 and 11.36 μg/mL, respectively	30	
<i>Chaetomium</i> YMF432	sp.	<i>Huperzia serrata</i> (Thunb. ex Murray) Trev	1-Omethylemodin (224)	AChE inhibitory activity	IC ₅₀ , 37.7 ± 1.5 and 37.0 ± 2.9 μM, respectively	60
			5-Methoxy-2-methyl-3-tricosyl-1,4-benzoquinone (225)			
<i>Chaetomium</i>	sp.	<i>Huperzia serrata</i> (Thunb.	Isosclerone (226)	AChE inhibitory	AChE inhibition rate less	29,60

YMF432/ <i>alternate</i>	<i>Alternaria</i> <i>ex Murray)</i> <i>Trev/</i> <i>Psidium littorale</i> Raddi.		activity ,neuroprotection for glutamate induced-PC12 cells injury	than 10% at 100 µg/mL, improving cell viabilities from 65.9 ± 3.9% to 74.6 ± 4.0% with 20, 40 and 80 µM	
			Hydroxy-2-[1-hydroxyethyl]-5,7 -dimethoxynaphtho[2,3-b] thiophene-4,9-dione (227)	Inactive	
<i>Aspergillus</i> (No. GX7-3B)	<i>terreus</i> <i>Bruguiera gymnoi</i> <i>hiza</i> (Linn.) Savigny		Anhydrojavanicin (228) 8-O-Methyljavanicin (229) Botryosphaerone D (230) 6-Ethyl-5-hydroxy-3,7-dimethox ynaphthoquinone (231)	AChE inhibitory activity Inactive	36
<i>Fusarium</i> sp. HP-2	"Qi-Nan" agarwood		3-Demethoxyl-fusarnaphthoqui none B (232) (2S,3S,4S)-8-Dehydroxy-8-metho xyl-dihydronaphthalenone (233)	AChE inhibitory activity Inhibition ratio of 11.9% at 50 µM	37
<i>Talaromyces</i> EN-501	<i>islandicus</i> <i>Laurencia okamura</i> <i>i</i>		8-Hydroxyconiothyrinone B (234) 8,11-Dihydroxyconiothyrinone B (235) 4R,8-Dihydroxyconiothyrinone B (236) 4S,8-Dihydroxyconiothyrinone B (237) 4S,8-Dihydroxy-10-O-methyliden dryol E (238)	Antioxidant activities against DPPH and ABTS IC ₅₀ for DPPH: 12, 31, 42, 52 and 30 µM, respectively. IC ₅₀ for ABTS: 19, 34, 31 and 24 µM, respectively.	61

	<i>Colletotrichum</i> F168	sp.	<i>Huperzia serrata</i> Trev	5-Methoxy-2-methyl-3-pentacyclohexa-2,5-diene-1,4-dione (239)	AChE inhibitory activity	Inhibition rate of 10.9% at 100 µg/mL	63
Other polyketides	<i>Colletotrichum gloeosporioides</i>		<i>M. champaca</i>	2(4-Hydroxyphenyl)acetic acid (240)	AChE inhibitory activity	Moderate activity at 200 µg	26
				2(2-Hydroxyphenyl)acetic acid (241)			
	<i>Penicillium</i> sp.1		<i>Alibertia macrophylla</i> K. Schum. (Rubiaceae)	Orcinol (242)	AChE inhibitory activity	Moderate AChE inhibitory activity	25
	<i>Bipolaris sorokiniana</i> LK12		<i>Rhazya stricta</i>	Sorokiniol (243)	AChE inhibitory activity	EC ₅₀ , 3.402 ± 0.08 µg/mL	43
	<i>Botryosphaeria dothidea</i> KJ-1		<i>Melia azedarach</i> L	Altenusin (244) 5'-Methoxy-6-methylbiphenyl-3,4,3'-triol (245)	DPPH radical scavenging activity	IC ₅₀ , 17.6 ± 0.23 and 18.7 ± 0.18 µM, respectively	33
	<i>Epicoccum nigrum</i>		<i>E. abyssinica</i> Steud. ex A. Rich	Parahydroxybenzaldehyde (246)	ABTS and DPPH scavenging activities	IC ₅₀ , 38.43 ± 4.85 and 49.45 ± 6.52 µg/mL	30
	<i>Phomopsis</i> sp. xy21	Thai	<i>Xylocarpus granatum</i>	Phomopsol B (247) 3-(2,6-Dihydroxyphenyl)-4-hydroxy-6-methylisobenzofuran-1(3H)-one (248)	Neuroprotection on corticosterone induced PC12 cells injury	Inactive Improving cell viabilities for 96% at 40.0 µM	38
	<i>Penicillium chermesinum</i> (ZH4-E2)		<i>Kandelia candel</i>	6'-O-Odesmethylterphenyllin (249) 3-Hydroxy-6'-O-desmethylterphenyllin (250) 3,3''-Dihydroxy-6'-O-desmethylterphenyllin (251)	AChE inhibitory activity	IC ₅₀ > 100 µM	57

		3''-Deoxy-6'-O-desmethylcandidusin B (252)		IC ₅₀ , 7.8 and 5.2 μM, respectively	
		6'-O-desmethylcandidusin B (253)			
		Flavipin (254)	AChE inhibitory activity	Inhibition ratio < 10% at 50 μM	
		Epicoccone (255)	—	—	
<i>Chaetomium globosum</i>	<i>Panax notoginseng</i>	3-Methoxyepicoccone (256)		Inhibition ratio of 72.6% at 50 μM	17
		Epicocolide A (257)	AChE inhibitory activity	Inhibition ratio < 10% at 50 μM	
		Epicocolide B (258)		IC ₅₀ , 5.55 μM	
		Butyrolactone I (259)		IC ₅₀ > 100 μg/mL	
		Ulocladol diacetate (260)	AChE inhibitory activity	IC ₅₀ , 83 and 37 μg/mL, respectively	
		Ulocladol triacetate (261)			
<i>Microsphaeropsis olivacea</i>	<i>Pilgerodendron uviferum</i> (D. Don) Florin	2,5-Diacetylphenol (262)			52
		7-Hydroxy-2,4dimethyl-3(2H)-benzofuranone (263)	—	—	
		Enalin[2,7-dihydroxy-2,4-dimethyl-3(2H)-benzofuranone (264)	AChE inhibitory activity	IC ₅₀ , 89 μg/mL	
		Corynesidone A (265)		IC ₅₀ > 250 μM	
<i>Corynespora cassiicola</i> L36	<i>Lindenbergi philippensis</i> (Cham.) Benth	Corynesidone B (266)	DPPH activity	IC ₅₀ , 22.4 and 182.4 μM, respectively	63
		Corynether A (267)			
		A diaryl ether (268)	MPP ⁺ -induced oxidative damage in PC12 cells	Improving cell viability	63, 64
<i>Penicillium citrinum</i>	<i>Bruguiera gymnorrhiza</i>	(Z)-7,40-dimethoxy-6-hydroxy-a	MPP ⁺ -induced oxidative	Improving cell viability and	64

		urone-4-O-b-glucopyranoside (269)	damage in PC12 cells	mitochondrial membrane potential, inhibiting caspase-3 and caspase-9 expression and reducing DNA fragments formation	
		(1S,3R,4S)-1-(40-hydroxyl-phenyl)-3,4-dihydro-3,4,5-trimethyl-1H-2-benzopyran-6,8-diol (270)		Neuroprotective activity	
<i>Pestalotiopsis microspora</i>	<i>Terminalia morobensis</i>	Isopestacin (271)	Hydroxyl free radical scavenging activity	Scavenging OH [•] at 0.22 mM	65
<i>Cochliobolus kusanoi</i>	<i>Nerium oleander</i> L	Oosporein (272)	DPPH scavenging activity	50% scavenging activity at 0.194 mM	66
<i>Sporothrix</i> sp. (#4335)		Sporothrin A (273)	AChE inhibitory activity	IC ₅₀ , 1.05 µM	67, 68
		Sporothrin B (274)			
		Sporothrin C (275)	–	–	
		Sporothrin C (276)			67
		1-Hydroxy 8-Methoxy-naphthalene (277)	AChE inhibitory activity	Inactive	
		1,8-Dimethoxy-naphthalene (278)			
<i>Alternaria</i> sp	<i>Maianthemum bifolium</i>	Bialternacin B (279)		Inactive	56
		Bialternacin C (280)	AChE inhibitory activity		
		Bialternacin D (281)		IC ₅₀ , 68.3µM	
<i>Phomopsis</i> sp. NXZ-05	<i>Camptotheca acuminata</i> DECNE. (Nyssaceae)	8-O-acetylmultiploide A (282)		IC ₅₀ , 1.19 mg/mL	69
		8-O-acetyl-5,6-dihydro-5,6-epoxymultiploide A (283)	AChE inhibitory activity	IC ₅₀ > 10 mg/mL	

		5,6-Dihydro-5,6-epoxymultiplolide A (284)			
		3,4-Deoxy-3,4-didehydromultiplolide A (285)			
		(4E)-6,7,9-Trihydroxydec-4-enoic acid (286)	–	–	
		Methyl (4E)-6,7,9-trihydroxydec-4-enoate (287)			
		Multiplolide A (288)	AChE inhibitory activity	IC ₅₀ > 10 mg/mL	
		5R-Hydroxyrecifeiolide (289)			
		5S-Hydroxyrecifeiolide (290)			
		ent-Cladospolide F (291)			
<i>Cladosporium cladosporioides</i> MA-299	<i>Bruguiera gymnorrhiza</i>	Cladospolide G (292)	AChE inhibitory activity	IC ₅₀ > 50 µM	70
		Cladospolide H (293)			
		iso-Cladospolide B (294)			
		Pandangolide 1 (295)		IC ₅₀ , 40.26 µM.	
<i>Aspergillus flavus</i>	<i>Corallina officinalis</i>	(8E,12Z)-10,11-Dihydroxyoctadeca-8,12-dienoic acid (296)	AChE inhibitory activity	Inhibitory rate of 10.3% at 100 µg/mL	71
<i>Curvularia</i> sp. T12	<i>Rauwolfia macrophylla</i>	2'-Deoxyribolactone (297)	AChE inhibitory activity	IC ₅₀ , 1.93 and 1.54 µM, respectively	72
		Hexylitaconic acid (298)			
<i>Talaromyces aurantiacus</i>		Talaromycin A (299)	AChE inhibitory activity	IC ₅₀ , 12.63 µM	73
		Talaromycin B (300)		Inactive	
<i>Curvularia</i> sp.G6-32	<i>Sapindus sap-onaria</i> L	E-G6-32 (301)	AChE inhibitory activity, DPPH and ABTS scavenging activities	IC ₅₀ > 350 µg/mL for AChE inhibition, inhibition values of 22.5% to the DPPH and	74

				62.7% to the ABTS
<i>Daldinia</i> sp.TJ403-LS1	<i>Anoectochilus roxburghii</i>	Daldiniol A (302)	BChE inhibitory activity	IC ₅₀ > 200 µM
		Daldiniol B (303)		
		Daldiniol C (304)		
		Daldiniol D (305)		
		4-Hydroxy-3-(3-methylbut-3-en-1-ynyl)benzyl alcohol (306)	BChE inhibitory activity	IC ₅₀ , 6.93 ± 0.71 and 16.00 ± 0.30 µM, respectively
		Methoxy-3-(3-methylbut-3-en-1-ynyl)benzyl alcohol (307)		
		Daldiniol E (308)	BChE inhibitory activity	IC ₅₀ > 200µM
		Daldiniol F (309)		IC ₅₀ , 23.33 ± 0.55 and 15.53 ± 0.39 µM, respectively
		Daldiniol G (310)		
<i>Saccharicola</i> sp	<i>Eugenia jambolana</i>	Speciosin U (311)	huAChE-ICER and eeAChE-ICER inhibitory activity	IC ₅₀ , 0.076 ± 0.01 and 0.0047 ± 0.0009 mg/mL, respectively
		Speciosin V (312)		Inactive
		Speciosin W (313)		
		4-Hydroxy-3-(3'-methylbut-3'-en-1'-ynyl)-benzoic acid (314)		
		4-Hydroxy-3-prenyl-benzoic acid (315)		
<i>Alternaria alternate</i>	<i>Psidium littorale</i> Raddi	Alternin A (316)	Neuroprotective activity against glutamate-induced PC12 cell death	Improving cell viabilities with the values ranging from 64.7 ± 4.9% to 72.3 ± 4.5 at 20, 40 and 80 µM.
		Stemphyperyleneol (317)		Inactive
		3(ζ)Hydroxy-octadeca-4(E),6(Z)-		

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			dienoic acid (318)				
			<i>E</i> -7,9-diene-11-methenyl				
			palmitic acid (319)				
			<i>p</i> -Hydroxybenzoic acid (320)				
			Benzoic acid (321)				
<i>Trematosphaeria terricola</i>	<i>Artemisia desertorum</i>		Trematosphone A (322)	Neuroprotective effect against corticosterone-induced injury in PC12 cells	Neuroprotection at 6.25 μ M	76	
			Trematosphone B (323)		Inactive		
<i>Phyllosticta capitalensis</i>	<i>Loropetalum chinense</i> var. rubrum		Guignardianone G (324)	Neuroprotective activities on glutamate-induced PC12 cells injury	No neuroprotective activity at 40 μ M		
			Xenofuranone B (325)		Weak cytotoxicity at 40 μ M	77	
			Linoleic acid (326)		EC ₅₀ , 33.9 μ M		
			2-Hexenoic acid (327)		Weak cytotoxicity at 40 μ M		
<i>Cochliobolus lunatus</i> SCSIO41401			Phthalide glycerol ether (328)	AChE inhibitory activity	IC ₅₀ , 2.5 \pm 0.21 μ M	40	
<i>Phoma</i> sp. YN02-P-3			Phomeketale A (329)				
			Phomeketale B (330)		IC ₅₀ > 100 μ M		
			Phomeketale C (331)	AChE inhibitory activity	IC ₅₀ , 40.0 μ M	78	
			Phomeketale D (332)				
			Phomeketale E (333)		IC ₅₀ > 100 μ M		
			Phomeketale F (334)				
<i>Penicillium</i> sk14JW2P	sp. DRUCE	<i>Kandelia candel</i> (L.)	13-Hydroxypalitantin (335)	AChE inhibitory activity	IC ₅₀ , 12 \pm 0.3 and 79 nM, respectively	79	
			(+)-Palitantin (336)				
<i>Aspergillus</i> sp. xy02		<i>Xylocarpus moluccensis</i>	(7R,10S)-7,10-Epoxyisodonic acid	DPPH scavenging	Inactive	80	

		(337)	activity		
		(7S,10S)-7,10-Epoxy-sydonic acid			
		(338)			
		(7R,11S)-7,12-Epoxy-sydonic acid			
		(339)			
		(7S,11S)-7,12-Epoxy-sydonic acid			
		(340)			
		7-Deoxy-7,14-didehydro-12-hydroxy-sydonic acid (341)			
		(Z)-7-Deoxy-7,8-didehydro-12-hydroxy-sydonic acid (342)			
		(E)-7-Deoxy-7,8-didehydro-12-hydroxy-sydonic acid (343)			
		(+)-1-Hydroxyboivinianic acid (344)			
		Engyodontiumone I (345)			
		(+)-Sydonic acid (346)			
		(+)-Hydroxy-sydonic acid (347)			
		(-)-(7S)-10-Hydroxy-sydonic acid (348)		IC ₅₀ , 72.1 μM	
<i>Phaeosphaeria</i> sp. LF5	<i>Huperzia serrata</i>	3-(Hydroxymethyl)-5-methylfuran-2(5H)-one (349)			
		Aspilactonol G (350)	AChE inhibitory activity	Inactive at 100 μM	49
		Aspilactonol H (351)			
		Aspilactonol I (352)		IC ₅₀ , 6.26 μM	

			<i>E</i> - Δ^2 -anhydromevalonic acid (353)	Inactive at 100 μ M	
co-culture of the <i>Armillaria</i> sp. and <i>Epicoccum</i> sp. YUD17002			Armilliphatic A (354)	IC ₅₀ , 23.85 μ M	AChE inhibitory activity 81
			Armilliphatic B (355)		
			Armilliphatic C (356)	Inactive at 50 μ M	
<i>Chaetoiium</i> sp. NF00754	<i>Pharbitis nil</i>		1-Oxaspiro chaetospirrolactone (357)	Inactive	AChE inhibitory activity 82
			Orsellide F (358)		
			Orsellide A (359)	IC ₅₀ , 7.34 μ M	
			Globosumone B (360)	Inactive	
			Globosumone C (361)	IC ₅₀ , 7.67 μ M	

“_” not test; IC₅₀, half maximal effective concentration; EC₅₀, half effective concentration; Emax, maximum effect; AChE, acetylcholinesterase; DPPH, 2,2-diphenyl-1-picrylhydrazyl; ABTS, 2,2-azino-bis(3-ethylbenzothiazoline-6-sulfonic acid) diammonium salt.