Psammaplins from the Sponge *Pseudoceratina purpurea*: Inhibition of Both Histone Deacetylase and DNA Methyltransferase

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Supporting Information

Spectrum S1. ¹³C NMR of **9** at 125 MHz in CD₃OD.

Spectrum S2. ¹H NMR of **9** at 500 MHz in CD₃OD.

Spectrum S3. ¹³C NMR of **10** at 125 MHz in CD₃OD.

Spectrum S4. ¹H NMR of **10** at 500 MHz in CD₃OD.

Spectrum S5. HRFAB⁺ MS of **11**.

Spectrum S6. HMBC of **11** at 500 MHz in DMSO-d₆.

Spectrum S7. ¹³C NMR of **12** at 500 MHz in CD₃OD.

Spectrum S8. ¹H NMR of **13** at 500 MHz in CD₃OD.

Spectrum S9. ¹³C NMR of **13** at 500 MHz in CD₃OD.

Spectrum S10. ¹H NMR of **14** at 500 MHz in CD₃OD.

Spectrum S11. ¹³C NMR of **14** at 500 MHz in CD₃OD.

Spectrum S12. Expansion of gHMQC of **14** at 500 MHz in CD₃OD.

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Spectrum S1. ^{13}C NMR of **9** at 125 MHz in CD_3OD .

Spectrum S2. ^1H NMR of **9** at 500 MHz in CD_3OD .

Spectrum S3. ^{13}C NMR of **10** at 125 MHz in CD_3OD .

Spectrum S4. ^1H NMR of **10** at 500 MHz in CD_3OD .

Spectrum S5. HRFAB⁺ MS of 11.

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Elemental Composition

Date : 18-MAR-1999

Heteroatom Max: 30 Ion: Both Even and Odd

Units:

494.005500

Mass

494.005500

PPM	WDA	Calc. Mass	DBE	C	H	N	O	S	Br
0.7	-0.4	494.005144	18.5	21	12	5	4	3	0
2.7	-1.3	494.004173	8.0	14	19	6	5	2	1
2.9	1.5	494.006954	24.0	23	6	6	6	1	
3.9	-1.9	494.003582	29.0	26	2	6	6		
4.1	2.0	494.007545	3.0	11	23	6	5	3	1
-7.5	-3.7	494.001773	23.5	24	8	5	4	2	
9.1	4.5	494.010005	17.5	21	13	5	5		1
9.5	-4.7	494.000801	13.0	17	15	6	5	1	1
9.8	4.8	494.010326	19.0	20	10	6	6	2	
11.1	5.5	494.010977	20.0	20	6	4	4	1	
-14.4	-7.1	493.998401	20.5	27	4	5	4	1	
15.9	7.9	494.013377	12.5	18	17	5	5	1	1
-16.3	-8.1	493.997429	10.0	20	11	6	5		1
16.6	8.2	494.013698	14.0	17	14	6	6	3	
17.9	0.0	494.014349	23.0	25	10	4	4	2	
-18.6	-9.2	493.996311	3.0	12	23	4	6	3	1

Psammaplin G (8)

Spectrum S6. HMBC of **11** at 500 MHz in DMSO-d₆.

Spectrum S7. ^{13}C NMR of **12** at 500 MHz in CD_3OD .

98171UB-53-4K

Spectrum S8. ¹H NMR of **13** at 500 MHz in CD₃OD.

Spectrum S9. ^{13}C NMR of **13** at 500 MHz in CD_3OD .

99171 DMM-53-H6-H5 PC 657

Spectrum S10. ^1H NMR of **14 at 500 MHz in CD_3OD .**

98171-DMH-55-H3-H1 PC 658

Spectrum S11. ^{13}C NMR of **14** at 500 MHz in CD_3OD .

STANDARD CARBON PARAMETERS
9817MM C543-H1 DC 6.58

Pšammaplín J

date	time	day	hr	min	sec	acq	15.7	16.7	17.7	18.7	19.7	20.7	21.7	22.7	23.7	24.7	25.7	26.7	27.7	28.7	29.7	30.7	31.7	32.7	33.7	34.7	35.7	36.7	37.7	38.7	39.7	40.7	41.7	42.7	43.7	44.7	45.7	46.7	47.7	48.7	49.7	50.7	51.7	52.7	53.7	54.7	55.7	56.7	57.7	58.7	59.7	60.7	61.7	62.7	63.7	64.7	65.7	66.7	67.7	68.7	69.7	70.7	71.7	72.7	73.7	74.7	75.7	76.7	77.7	78.7	79.7	80.7	81.7	82.7	83.7	84.7	85.7	86.7	87.7	88.7	89.7	90.7	91.7	92.7	93.7	94.7	95.7	96.7	97.7	98.7	99.7	100.7	101.7	102.7	103.7	104.7	105.7	106.7	107.7	108.7	109.7	110.7	111.7	112.7	113.7	114.7	115.7	116.7	117.7	118.7	119.7	120.7	121.7	122.7	123.7	124.7	125.7	126.7	127.7	128.7	129.7	130.7	131.7	132.7	133.7	134.7	135.7	136.7	137.7	138.7	139.7	140.7	141.7	142.7	143.7	144.7	145.7	146.7	147.7	148.7	149.7	150.7	151.7	152.7	153.7	154.7	155.7	156.7	157.7	158.7	159.7	160.7	161.7	162.7	163.7	164.7	165.7	166.7	167.7	168.7	169.7	170.7	171.7	172.7	173.7	174.7	175.7	176.7	177.7	178.7	179.7	180.7	181.7	182.7	183.7	184.7	185.7	186.7	187.7	188.7	189.7	190.7	191.7	192.7	193.7	194.7	195.7	196.7	197.7	198.7	199.7	200.7	201.7	202.7	203.7	204.7	205.7	206.7	207.7	208.7	209.7	210.7	211.7	212.7	213.7	214.7	215.7	216.7	217.7	218.7	219.7	220.7	221.7	222.7	223.7	224.7	225.7	226.7	227.7	228.7	229.7	230.7	231.7	232.7	233.7	234.7	235.7	236.7	237.7	238.7	239.7	240.7	241.7	242.7	243.7	244.7	245.7	246.7	247.7	248.7	249.7	250.7	251.7	252.7	253.7	254.7	255.7	256.7	257.7	258.7	259.7	260.7	261.7	262.7	263.7	264.7	265.7	266.7	267.7	268.7	269.7	270.7	271.7	272.7	273.7	274.7	275.7	276.7	277.7	278.7	279.7	280.7	281.7	282.7	283.7	284.7	285.7	286.7	287.7	288.7	289.7	290.7	291.7	292.7	293.7	294.7	295.7	296.7	297.7	298.7	299.7	300.7	301.7	302.7	303.7	304.7	305.7	306.7	307.7	308.7	309.7	310.7	311.7	312.7	313.7	314.7	315.7	316.7	317.7	318.7	319.7	320.7	321.7	322.7	323.7	324.7	325.7	326.7	327.7	328.7	329.7	330.7	331.7	332.7	333.7	334.7	335.7	336.7	337.7	338.7	339.7	340.7	341.7	342.7	343.7	344.7	345.7	346.7	347.7	348.7	349.7	350.7	351.7	352.7	353.7	354.7	355.7	356.7	357.7	358.7	359.7	360.7	361.7	362.7	363.7	364.7	365.7	366.7	367.7	368.7	369.7	370.7	371.7	372.7	373.7	374.7	375.7	376.7	377.7	378.7	379.7	380.7	381.7	382.7	383.7	384.7	385.7	386.7	387.7	388.7	389.7	390.7	391.7	392.7	393.7	394.7	395.7	396.7	397.7	398.7	399.7	400.7	401.7	402.7	403.7	404.7	405.7	406.7	407.7	408.7	409.7	410.7	411.7	412.7	413.7	414.7	415.7	416.7	417.7	418.7	419.7	420.7	421.7	422.7	423.7	424.7	425.7	426.7	427.
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