

Table S1. ^1H (500 MHz) and ^{13}C (125 MHz) NMR Data and HMBC Correlations for **1** in Acetone- d_6 (J in Hz in Parentheses).

position	δ_{H}	HMBC	NOE (%)	δ_{C}
1	-	-	-	114.7
2	-	-	-	145.0
3	-	-	-	139.8
4	-	-	-	145.0
4a	-	-	-	119.1
4b	-	-	-	124.5
5	9.14 s	C-4a, C-6, C-7, C-8a	-	108.3
6	-	-	-	148.5
7	-	-	-	146.5
8	7.19 s	C-6, C-7, C-9	-	112.2
8a	-	-	-	128.6
9	7.23 d (9.0)	C-4b, C-8, C-8a, C-10a	-	124.8
10	6.91 d (9.0)	C-1, C-4a, C-8a	-	123.5
10a	-	-	-	126.9
OH-2	7.72 br s	C-1	-	-
OH-3	8.25 br s	-	-	-
OH-7	7.95 s	C-8	-	-
OCH ₃ -4	4.06 s	C-4	H-5 (9.1), OH-3 (2.1)	60.2
OCH ₃ -6	4.08 s	C-6	H-5 (17.3)],	56.2

Table S2. ^1H (500 MHz) and ^{13}C (125 MHz) NMR Data and HMBC Correlations for (2*R**,3*S**)-3-Hydroxymethyl-9-methoxy-2-(4'-hydroxy-3',5'-dimethoxyphenyl)-2,3,6,7-tetrahydrophenanthro[4,3-*b*]furan-5,11-diol (**2**) in Acetone-*d*₆ (*J* in Hz in Parentheses)

position	δ_{H}	HMBC	NOE (%)	δ_{C}
2	5.65 d (7.3)	C-1', C-3, C-2', C-3a, C-6', C-7', C-11c	H-2' and H-6' (11.0), OH-11 (3.1)	89.4
3	3.69 br q (6.3)	C-2, C-3a, C-7', C-1', C-4, C-11c	H-2' and H-6' (5.7)	54.0
3a	-	-	-	127.3
4	6.90 s	C-5, C-3, C-5a, C-11c	H-3 (2.9), H ₂ -7' (1.5), OH-5 (1.0)	111.3
5	-	-	-	149.3
5a	-	-	-	125.3
6	2.64 m	C-5a, C-7, C-5, C-7a, C-11b		22.8
	2.82 m	C-5a, C-7, C-5, C-7a, C-11b		
7	2.67 m	C-6, C-7a, C-5a, C-8, C-11a	H-8	31.4
7a	-	-	-	142.5
8	6.46 d (2.7)	C-9, C-7, C-10, C-11a	OCH ₃ -9 (2.1)	107.3
9	-	-	-	160.9
10	6.33 d (2.7)	C-9, C-11, C-8, C-11a	OH-11 (1.8), OCH ₃ -9 (2.1)	102.9
11	-	-	-	156.2
11a	-	-	-	113.8
11b	-	-	-	117.3
11c	-	-	-	146.8
5-OH	8.02 br s	C-5, C-4, C-5a		-
11-OH	8.50 s	C-11, C-10, C-11a		-
9-OCH ₃	3.76 s	C-9	H-8 (6.6), H-10 (13.1)	55.4
1'	-	-	-	131.8
2'	6.80 s	C-1', C-3', C-2, C-4', C-6'	H-2 (11.0), H-3 (6.9), OH-11 (4.7), OCH ₃ -3' and OCH ₃ -5' (7.1)	104.9
3'	-	-	-	148.9
4'	-	-	-	137.0
5'	-	-	-	148.9
6'	6.80 s	C-1', C-5', C-2, C-2', C-4'		104.9
7'	3.90 br s	C-2, C-3a	H-2 (7.6), H-3 (8.0)	63.8

OH-4'	7.37 br s	C-4', C-3', C-5'	-	-
OH-7'	4.15 br s	-	-	-
OCH ₃ -3'	3.80 s	C-3'	H-2' (6)	56.7
OCH ₃ -5'	3.80 s	C-5'	H-6' (6)	56.7
