

Figure 1

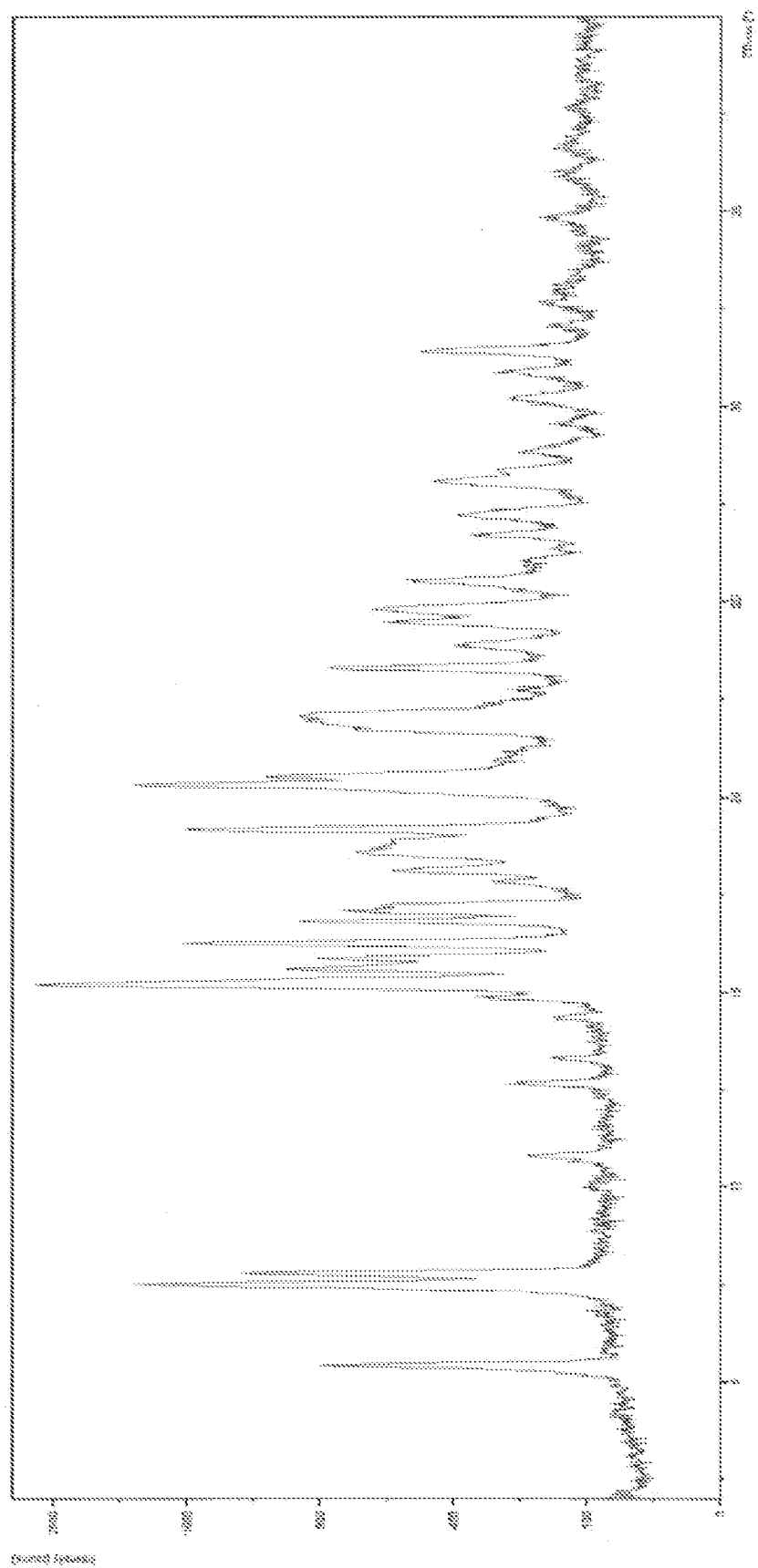


Figure 2

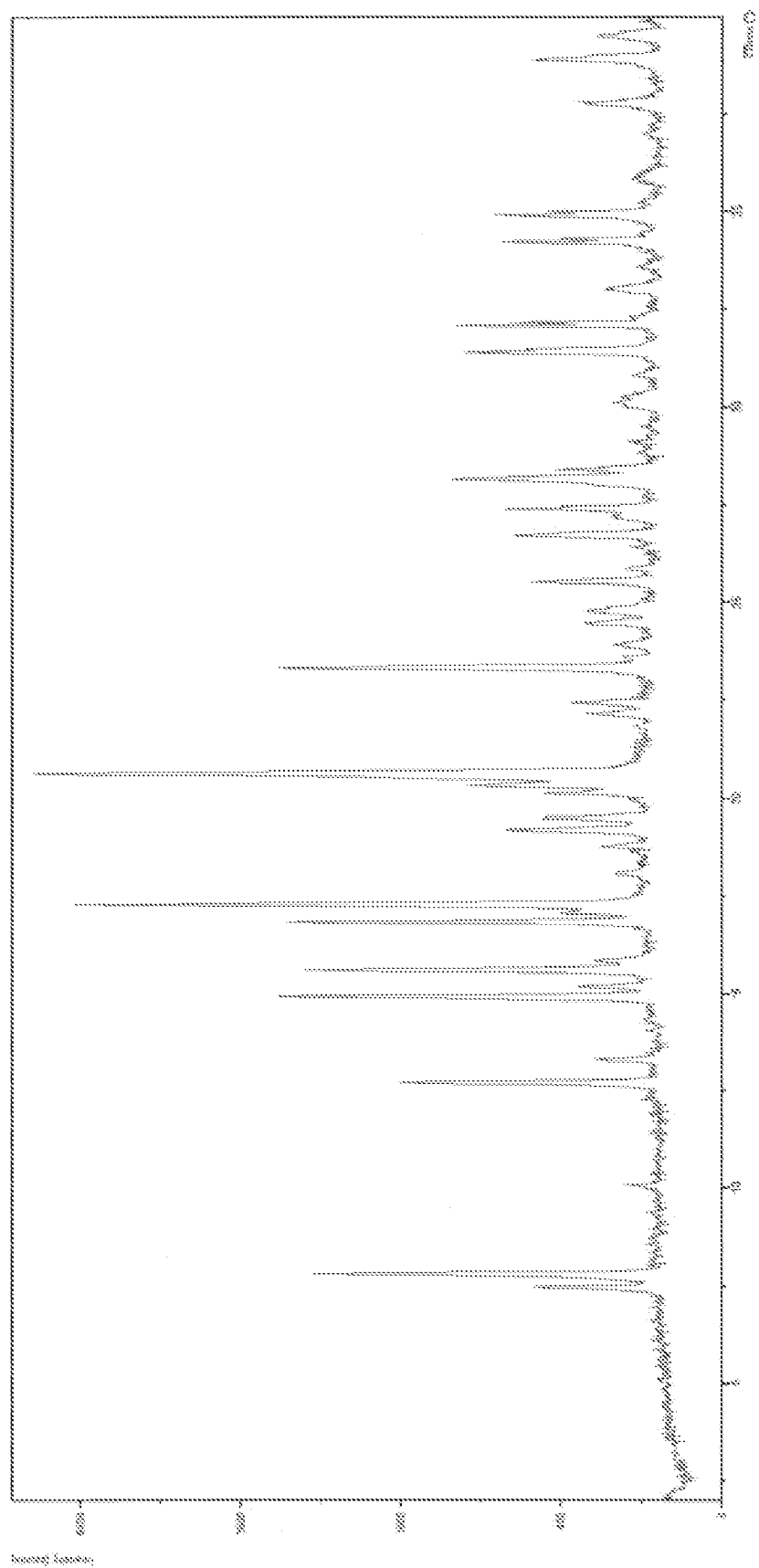


Figure 3

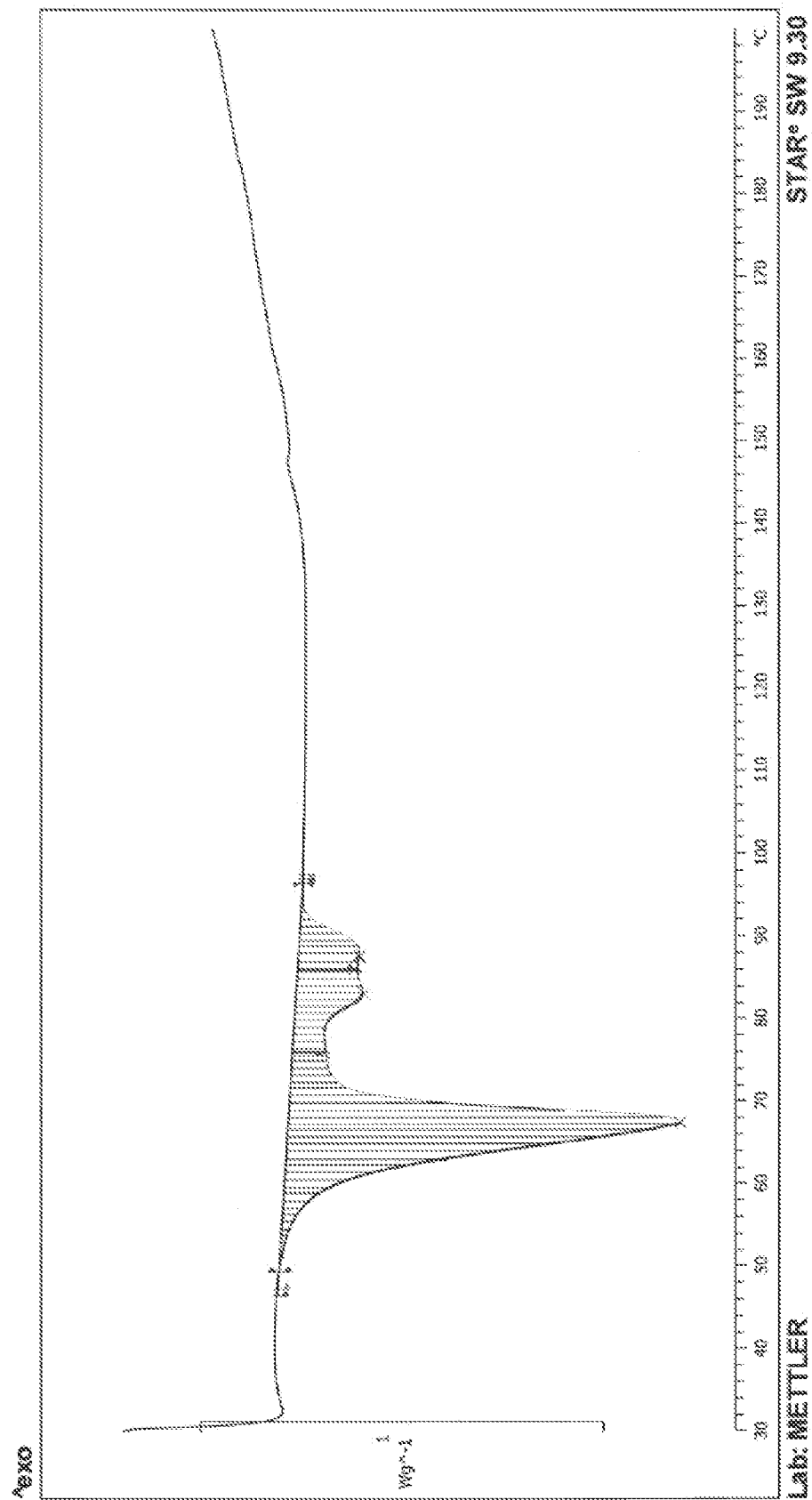


Figure 4

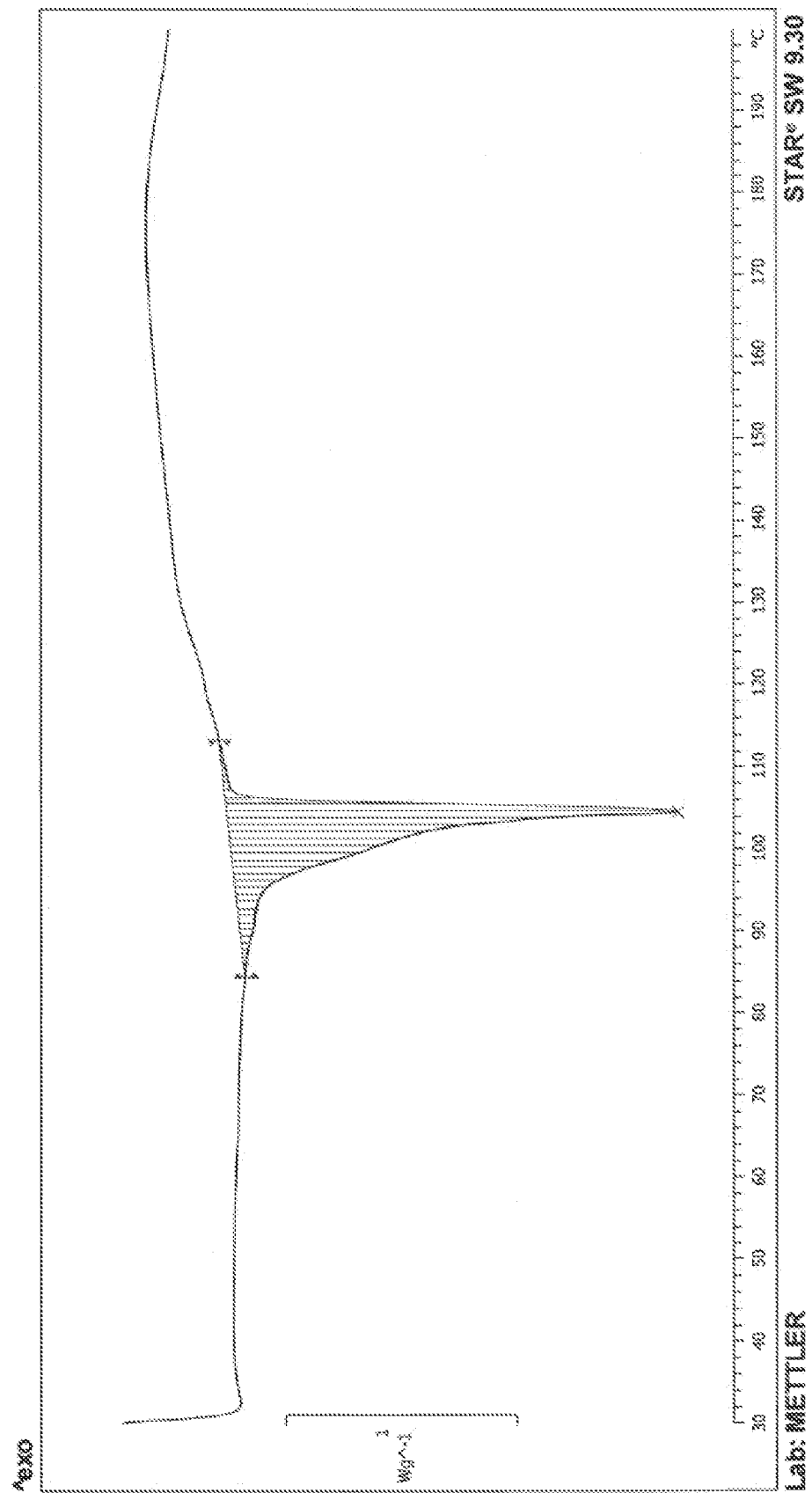
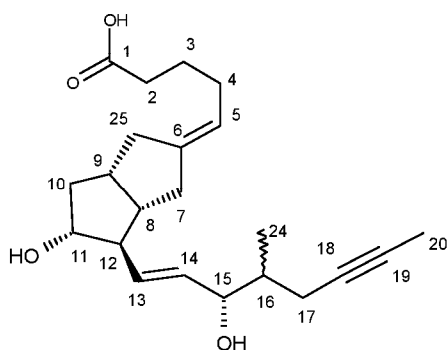
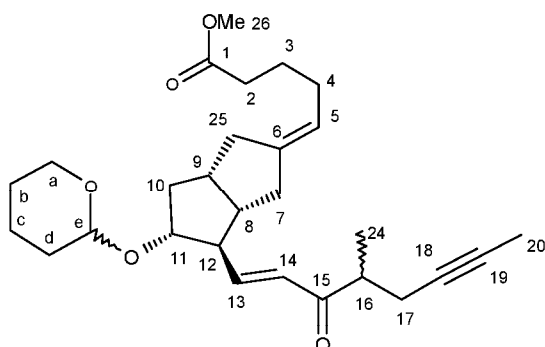


Figure 5



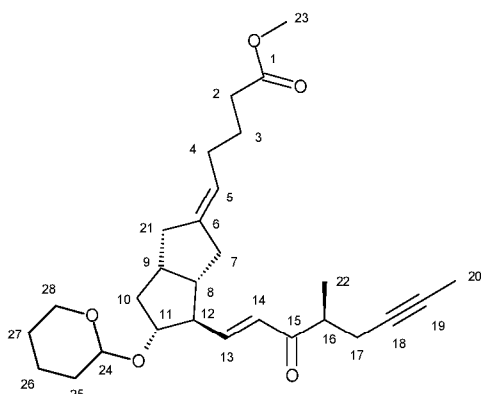
Numbering	^{13}C (ppm)	^1H (ppm)	Number of ^1H	Multiplicity	Coupling constant (Hz)
1	175,4	-			
2	34,1	2,23	2	t	$J_{2,3}=7,4$
3	25,8	1,57	2	m	
4	29,3	2,00	2	m	
5	121,4	5,24	1	t	$J_{4,5}=7,1$
6	143,48; 143,46	-			
7	38,84; 38,82	2,37; 1,98	2	m	
8	45,5	2,05	1	m	
9	38,0	2,37	1	m	
10	43,06; 43,04	2,18; 1,09	2	m	
11; OH	77,3	3,59; 4,60	1; 1	m	
12	56,82; 56,80	1,75	1	m	
13	133,3; 133,8	5,53; 5,50	1	dd	$J_{12,13}=6,4$
14	133,1; 133,0	5,39; 5,37	1	dd	$J_{13,14}=15,4$
15; OH	75,1; 74,4	3,90; 3,77; 4,66; 4,62	1; 1	t	$J_{14,15}=6,0$
16	39,8; 39,6	1,60; 1,58	1	m	
17	22,8; 22,5	2,26; 2,00; 2,24; 1,91	2	m	
18	77,2; 77,1	-			
19	79,5; 79,3	-			
20	4,1	1,77	3	s	
24	16,4; 15,6	0,92; 0,89	3	d	$J_{16,24}=6,8$
25	36,5	2,31; 2,03	2	m	

Figure 6



Numbering	¹³ C (ppm)	¹ H (ppm)	Number of ¹ H
1	174,2	-	
2	33,6	2,34	2
3	25,64; 25,62	1,62	2
4	29,1	2,01	2
5	121,79; 121,76	5,27	1
6	142,96; 142,93	-	
7	38,72; 38,65	2,37; 2,00	2
8	45,1	2,23; 2,25	1
9	38,5; 38,4	2,48; 2,33	1
10	41,3; 39,1	2,39; 2,32; 1,27; 1,11	2
11	83,0; 80,1	3,95; 3,90	1
12	55,79; 55,78; 54,98; 54,96	2,16; 2,11	1
13	149,88; 149,76; 149,76; 149,68	6,88; 6,85	1
14	129,53; 129,49; 129,45; 129,13	6,28; 6,25	1
15	202,10; 202,06; 202,04; 202,03	-	
16	43,42; 43,38; 43,23; 43,18	3,00; 2,98	1
17	22,59; 22,56	2,38; 2,24	2
18	78,12; 78,10; 78,07; 78,05	-	
19	77,76; 77,75; 77,74; 77,70	-	
20	4,0	1,74	3
24	17,15; 17,13	1,10; 1,08	3
25	36,1; 36,0	2,32; 2,07	2
26	52,1	3,62	3
e	99,30; 96,8	4,64; 4,56	1
d	31,3; 31,2	1,60; 1,56; 1,44; 1,40	2
c	20,2; 19,8	1,71; 1,68; 1,48; 1,44	2
b	26,0; 25,9	1,62; 1,60; 1,47; 1,42	2
a	62,5; 61,9	3,77; 3,68; 3,42; 3,39	2

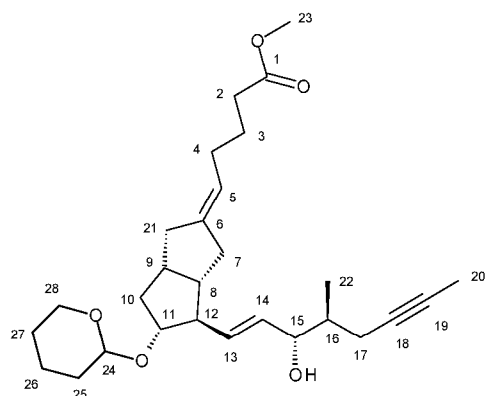
Figure 7



Numbering	¹³ C (ppm)	¹ H (ppm)	Number of ¹ H	Multiplicity	Coupling constant (Hz) (+/- 0.2Hz)
1	173.23	-	-	-	
2	32.63	2.30 [*] ; 2.295 [*]	2	m (t)	J _{2,3} =7.4
3	24.67 [§] ; 24.65 [§]	1.575 ^{**}	2	m (qui)	J _{3,4} =7.2
4	28.14	1.975 ^{***}	2	m	
5	120.77 [§] ; 120.80 [§]	5.23 ⁺	1	t	J _{4,5} =6.7
6	141.99 [§] ; 141.96 [§]	-	-	-	
7	37.69 [§] ; 37.76 [§]	β: 2.33 [*] α: 1.99 ^{***} ; 1.95 ^{***}	1 1	m m	
8	44.17 [§] ; 44.19 [§]	2.20 [*]	1	m	
9	37.50 [§] ; 37.59 [§]	2.445 ⁺⁺	1	m	
10	40.31; 38.14	β: 2.28 [*] ; 2.35 [*] α: 1.235 ⁺⁺⁺ ; 1.075 [#]	1 1	m m (ddd)	J _{10gem} =12.6; J _{9,10β} =8.2
11	82.02; 79.21	3.86 ^{##} ; 3.905 ^{##}	1	m (td)	J _{10β,11} =J _{11,12} =9.3/9.2; J _{10α,11} =7.0/6.7
12	54.83; 54.00	2.075 ^{***} ; 2.125 ^{***}	1	m (q)	9.2/9.0
13	148.74; 148.86	6.83 ^{###} ; 6.74 ^{###}	1	m (dd)	J _{12,13} =8.7/8.3; J _{13,14} =15.7
14	128.50 [§] ; 128.54 [§]	6.22 ^{&} ; 6.24 ^{&}	1	m (d)	
15	201.04 [§] ; 201.08 [§]	-	-	-	
16	42.27 [§] ; 42.21 [§]	2.96 ^{&&} ; 2.965 ^{&&}	1	m (sex)	J _{16,17} =J _{16,22} =6.9
17	21.60 [§] ; 21.62 [§]	a: 2.34 [*] b: 2.19 [*]	1 1	m m	
18	77.06 [§] ; 77.08 [§]	-	-	-	
19	76.76 [§] ; 76.75 [§]	-	-	-	
20	3.02	1.70 ^{&&&}	3	m (t)	J _{17,20} =2.4
21	35.07 [§] ; 35.12 [§]	β: 2.285 [*] α: 2.03 ^{***}	1 1	m m	
22	16.16	1.05 [#] ; 1.055 [#]	3	m (d)	
23	51.10	3.58 ^L ; 3.575 ^L	3	m (s)	
24	98.34; 95.81	4.525 ^L ; 4.605 ^L	1	m (dd)	~4.1/~3.6; ~2.6
25	30.28 [§] ; 30.38 [§]	a: 1.55 ^{**} b: 1.40 ^l	1 1	m m	
26	19.20; 18.79	a: 1.665 ^{&&&} ; 1.645 ^{&&&} b: 1.41 ^l ; 1.44 ^l	1 1	m m	
27	24.96 [§] ; 25.02 [§]	a: 1.44 ^l b: 1.38 ^l	1 1	m m	
28	61.57; 60.89	a: 3.73 ^{ll} ; 3.65 ^{ll} b: 3.38 ^{lll} ; 3.345 ^{lll}	1 1	m m	

[§]: Partly overlapped ¹³C NMR signals. ^{*}, ^{**}, ^{***}, [#], ^{##}, ^{###}, [&], ^{&&}, ^{&&&}, ^L, ^{LL}, ^{LLL}, ^{ll}, ^{lll}: Partly overlapped ¹H NMR signals. ^{***}, ⁺⁺, ⁺⁺⁺, [#], ^{##}, ^{###}, [&], ^{LL}, ^{LLL}, ^{lll}: Partly overlapped by the ¹H NMR signals of the sample impurities. ⁺⁺: Partly overlapped by the ¹H NMR signals of the DMSO-d₆ solvent.

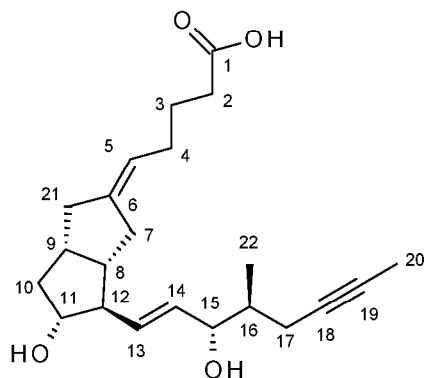
Figure 8



Numbering	¹³ C (ppm)	¹ H (ppm)	Number of ¹ H	Multiplicity	Coupling constant (Hz) (+/- 0.2 Hz)
1	173.24	-	-	-	
2	32.63	2.285*	2	m (t)	J _{2,3} =7.3
3	24.68 [§] ; 24.65 [§]	1.57**	2	m (qui)	J _{3,4} =7.3
4	28.16	1.965***	2	m	
5	120.45	5.205	1	t	J _{4,5} =6.3
6	142.43 [§] ; 142.40 [§]	-	-	-	
7	37.71 [§] ; 37.82 [§]	β: 2.32* α: 1.98***; 1.95***	1 1	m m	
8	44.42	2.06***	1	m	
9	37.09; 37.30	2.38*	1	m	
10	40.16; 37.68 [§]	β: 2.225*, 2.30* α: 1.17 ⁺ ; 0.995 ⁺⁺	1 1	m m (ddd)	J _{10gem} =12.5/12.1; J _{9,10a} =8.0/7.6
11	82.40; 78.77	3.67; 3.76***	1	td / m (td)	J _{10β,11} =J _{11,12} =9.3/9.0; J _{10a,11} =7.1/7.0
12	54.48; 53.43	1.85***; 1.92***	1	m (td)	J _{12,13} =8.1/7.7
13	131.88; 131.77	5.50 [#] ; 5.52 [#]	1	m (dd)	J _{13,14} =15.6/15.4
14	132.22; 132.05	5.37 ^{##} ; 5.40 ^{##}	1	m (dd)	J _{14,15} =6.1
15	73.37; 73.53	3.78 ⁺⁺⁺ ; 3.79 ⁺⁺⁺	1	m / m (q/dt)	~5.5
OH-15		4.65 ^{###} ; 4.645 ^{###}	1	m (d)	J _{15,15-OH} =5.0/4.9
16	38.75 [§] ; 38.82 [§]	1.555**	1	m	
17	21.43	a: 2.205* b: 1.945***	1 1	m m	
18	78.21 [§] ; 78.28 [§]	-	-	-	
19	76.13 [§] ; 76.06 [§]	-	-	-	
20	3.12	1.73 ^{&}	3	m (t)	J _{17,20} =2.2
21	35.40 [§] ; 35.45 [§]	β: 2.285* α: 1.995***	1 1	m m	
22	15.28 [§] ; 15.31 [§]	0.85 ^{&&} ; 0.86 ^{&&}	3	m (d)	J _{16,22} =6.9
23	51.10	3.58 ^{&&&} ; 3.575 ^{&&&}	3	m (s)	
24	98.39; 95.08	4.59 ^{###} ; 4.61 ^{###}	1	m (dd) / m (t)	~4.2; ~2.6/~3.2
25	30.38 [§]	a: 1.55** b: 1.405 ^L	1 1	m m	
26	19.24; 18.60	a: 1.66 ^{&} ; 1.69 ^{&} b: 1.41 ^L ; 1.44 ^L	1 1	m m	
27	25.05 [§] ; 25.10 [§]	a: 1.44 ^L b: 1.395 ^L	1 1	m m	
28	61.47; 60.64	a: 3.73 ⁺⁺⁺ ; 3.745 ⁺⁺⁺ b: 3.385 ^L ; 3.36 ^L	1 1	m m	

[§]: Partly overlapped ¹³C NMR signals. *, **, ***, ++, ##, ###, &, &&, &&&, L, LL: Partly overlapped ¹H NMR signals. ***, +, ++, #, ##, &&, L: Partly overlapped by the ¹H NMR signals of the sample impurities.

Figure 9



Numbering	¹³ C (ppm)	¹ H (ppm)	Number of ¹ H	Multiplicity	Coupling constant (Hz) (+/- 0.2Hz)
1	174.44	-	-	-	
COOH-1		11.945	1	br	
2	33.15	2.19*	2	m (t)	J _{2,3} =7.3
3	24.90	1.535**	2	m (qui)	J _{3,4} =7.3
4	28.33	1.965***	2	m	
5	120.45	5.205	1	t	J _{4,5} =6.3
6	142.53	-	-	-	
7	37.87	β: 2.305* α: 1.945***	1 1	m m	
8	44.58	2.02***	1	m	
9	37.07	2.34*	1	m	
10	42.08	β: 2.14* α: 1.055	1 1	m (dt) m (ddd)	J _{10gem} =12.3; J _{9,10β} =7.5 J _{9,10α} =7.9
11	76.37	3.555+	1	td	J _{10β,11} =J _{11,12} =9.2; J _{10α,11} =7.2
OH-11		4.54++	1	br	
12	55.86	1.715+++	1	m (td)	J _{8,12} =9.2
13	132.85	5.47#	1	dd	J _{12,13} =7.5; J _{13,14} =15.4
14	131.98	5.33###	1	dd	J _{14,15} =6.9
15	74.18	3.735	1	t (dd)	J _{15,16} =5.9
OH-15		4.60++	1	br	
16	38.68	1.545**	1	m	
17	21.58	a: 2.215* b: 1.955***	1 1	m m	
18	78.34	-	-	-	
19	76.20 ^{\$}	-	-	-	
20	3.18	1.735+++	3	m (t)	J _{17,20} =2.4
21	35.58	β: 2.285* α: 1.99***	1 1	m m	
22	15.44	0.85####	3	m (d)	J _{16,22} =6.7

^{\$}: Partly overlapped by the ¹³C NMR signals of the 16-R-ILO-12 isomer. *, **, ***, ++, +++: Partly overlapped ¹H NMR signals. #, ##, ####: Partly overlapped by the ¹H NMR signals of the 16-R-ILO-12 isomer. †: Partly overlapped by the ¹H NMR signal of water.