

【公報種別】特許法第 17 条の 2 の規定による補正の掲載

【部門区分】第 3 部門第 2 区分

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A 6 1 K 31/708 (2006.01)

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C 0 7 H 19/213 C S P

C 0 7 H 19/23

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A 6 1 K 45/00

A 6 1 K 39/395 T

A 6 1 K 39/395 E

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A 6 1 P 43/00 1 2 1

A 6 1 P 43/00 1 1 1

A 6 1 P 37/04

A 6 1 P 37/02

A 6 1 P 31/00

A 6 1 K 31/7084

A 6 1 K 31/708

【誤訳訂正書】

【提出日】令和 2 年 2 月 21 日 (2020.2.21)

【誤訳訂正 1】

【訂正対象書類名】明細書

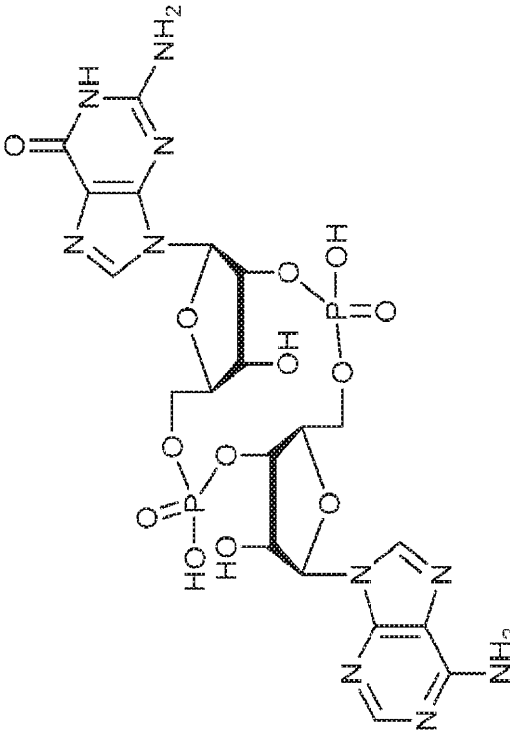
【訂正対象項目名】0 3 6 9

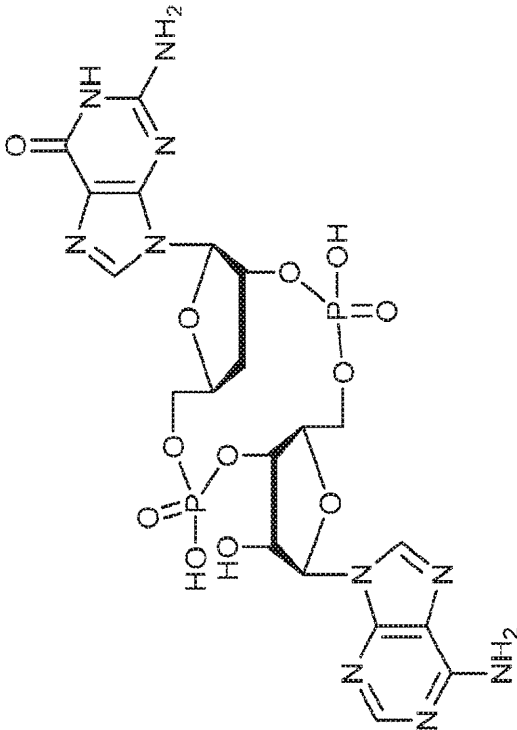
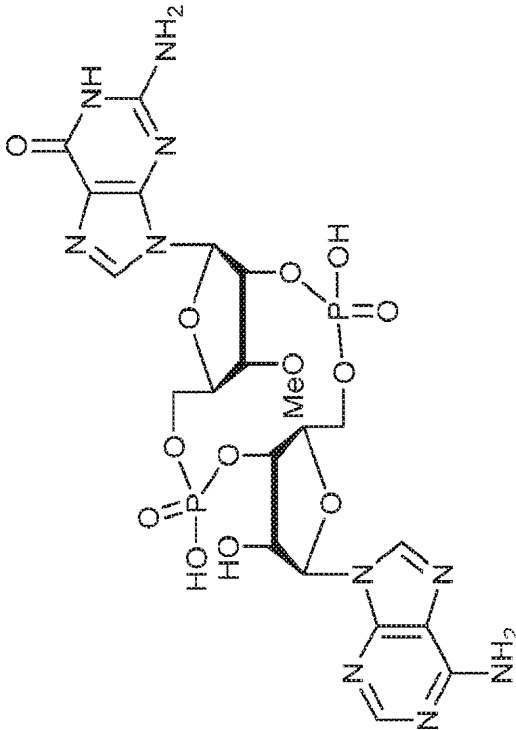
【訂正方法】変更

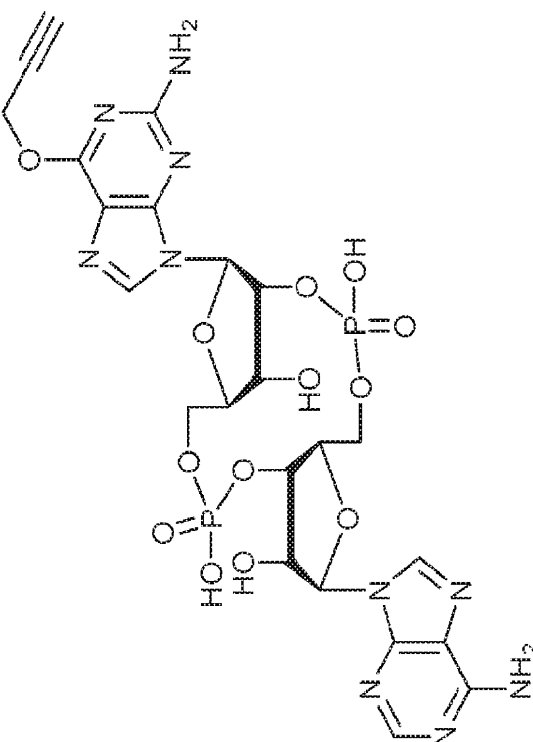
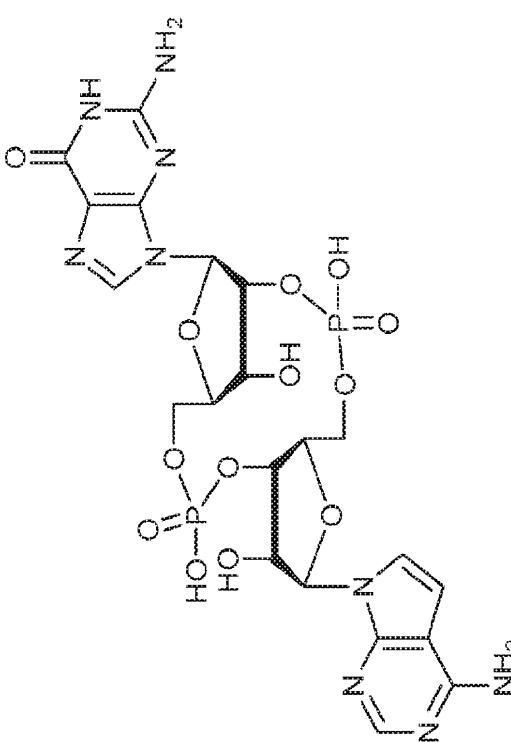
【訂正の内容】

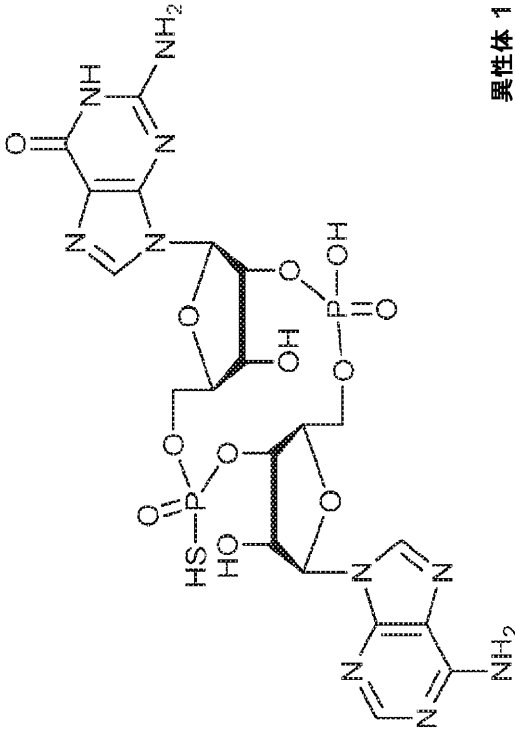
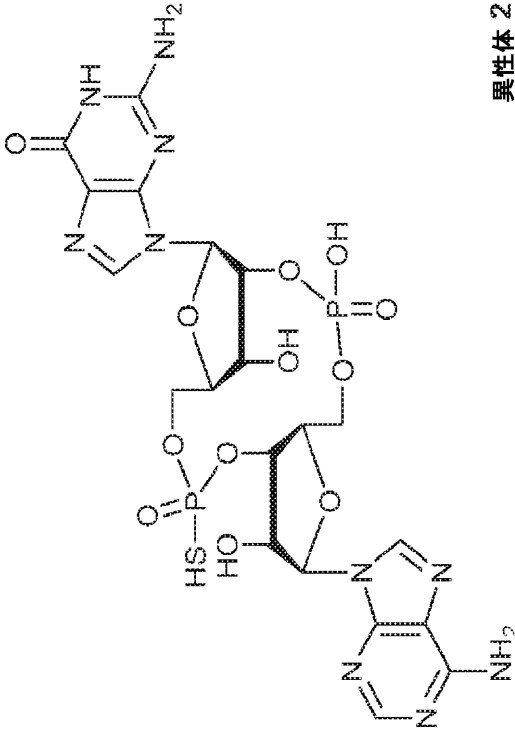
【 0 3 6 9 】

(表 4) 環状ジヌクレオチドおよび類似体の物性データ

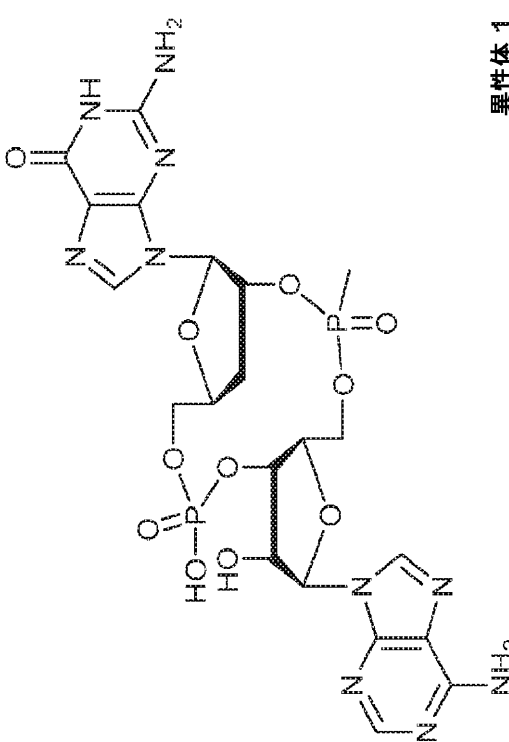
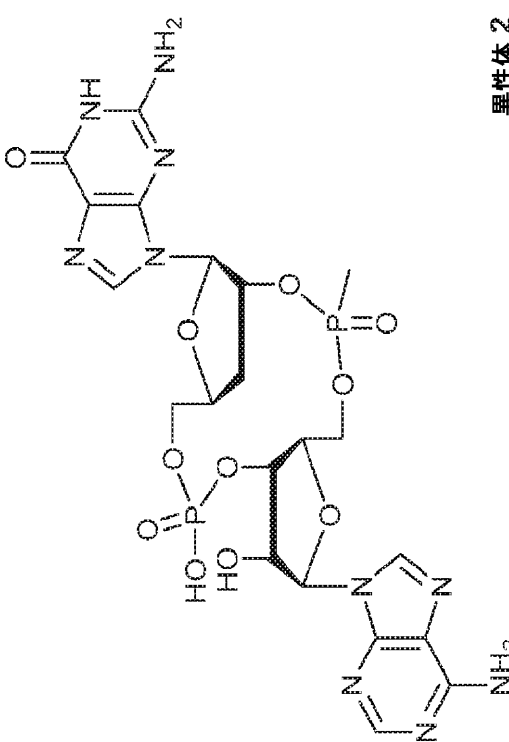
例	構造	特徴的な ^1H NMR データ δ (ppm)*	^{31}P NMR データ δ (ppm)*	MS データ m/z
E1		8.58 (s, 1H) 8.56 (s, 1H) 8.16 (s, 1H) 6.45 (s, 1H) 6.22 (d, $J = 8.5$ Hz, 1H) 5.89 (m, 1H) 5.31 (m, 1H) 50 °C	0.1 -0.9 50 °C	[M+H] ⁺ 675.1

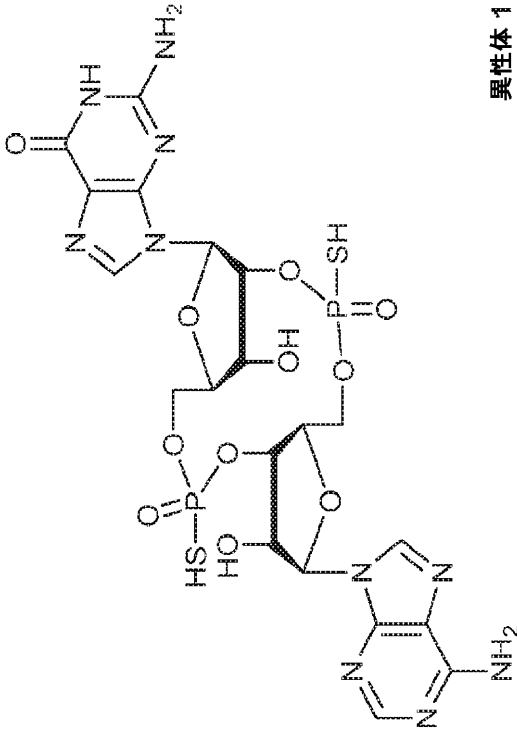
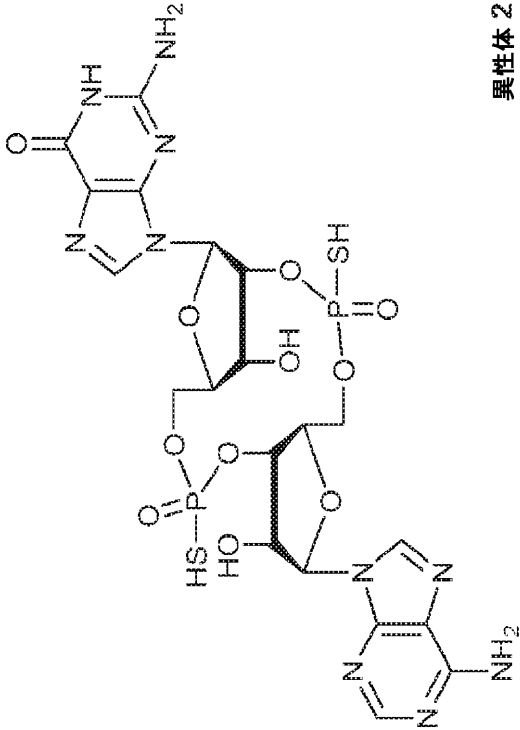
E2				$[M+H]^+$ 659.0
E3		8.31 (s, 1H) 8.29 (s, 1H) 7.88 (s, 1H) 6.19 (s, 1H) 5.92 (d, $J = 8.7$ Hz, 1H) 5.71 (ddd, $J = 8.4$, 8.3, 4.3 Hz, 1H) 5.09 (ddd, $J = 9.8$, 6.9, 4.2 Hz, 1H) D ₂ O中のNa ⁺ 塩	-1.2 -2.5 D ₂ O中のNa ⁺ 塩	$[M-H]^-$ <u>687.2</u>

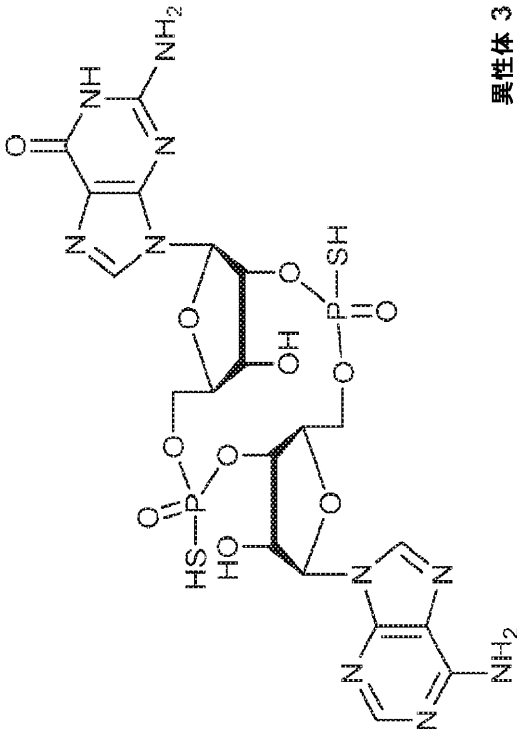
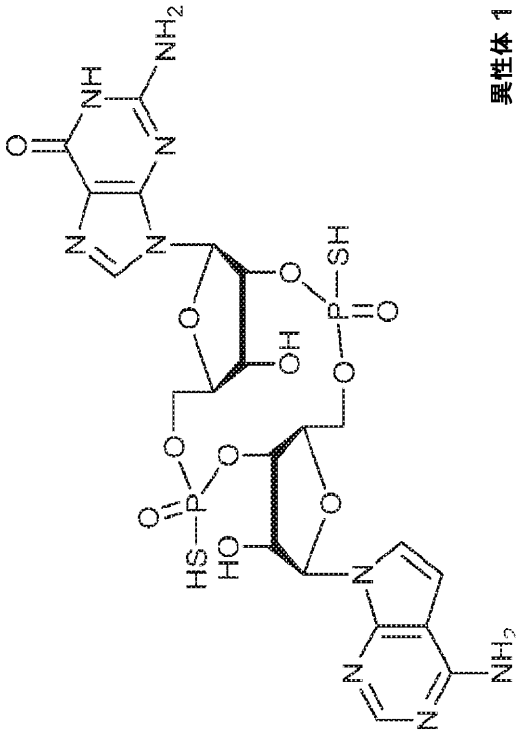
E4		8.24 (s, 1H) 8.18 (s, 1H) 7.97 (s, 1H) 6.10 (d, $J = 1.4$ Hz, 1H) 5.97 (d, $J = 8.4$ Hz, 1H) 5.63 (ddd, $J = 8.1$, 7.9, 4.2 Hz, 1H) 5.09 (m, 1H)	-1.5 -2.4	$[M+H]^+$ <u>713.2</u>
E5		D₂O-CH₃CN Φ 8.20 (s, 1H) 7.95 (s, 1H) 7.47 (d, $J = 3.8$ Hz, 1H) 6.77 (d, $J = 3.8$ Hz, 1H) 6.08 (d, $J = 4.7$ Hz, 1H) 5.80 (d, $J = 4.9$ Hz, 1H)		$[M+H]^+$ 673.7

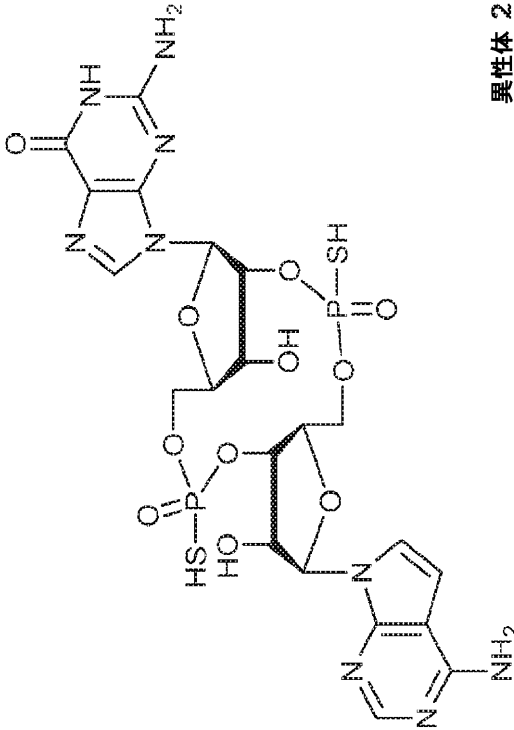
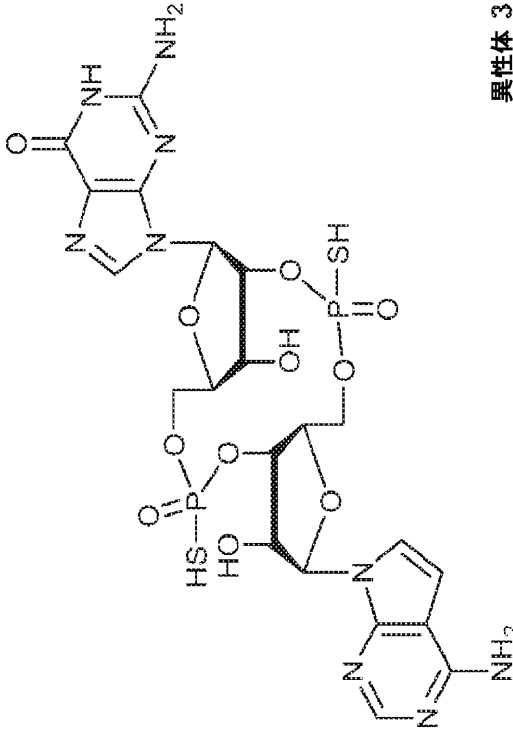
E6	 異性体 1	8.25 (s, 1H) 8.23 (s, 1H) 8.02 (s, 1H) 6.18 (s, 1H) 5.96 (d, $J = 8.6$ Hz, 1H) 5.43 (td, $J = 8.1, 3.9$ Hz, 1H)	52.4 -2.4 [M+H]⁺ 691.0
E7	 異性体 2	8.29 (s, 1H) 8.26 (s, 1H) 7.85 (s, 1H) 6.17 (s, 1H) 5.92 (d, $J = 8.5$ Hz, 1H) 5.61 (ddd, $J = 7.9, 7.9, 4.0$ Hz, 1H) 5.20 (ddd, $J = 8.8, 8.8, 4.1$ Hz, 1H)	55.1 -2.5 [M+H]⁺ 691.0

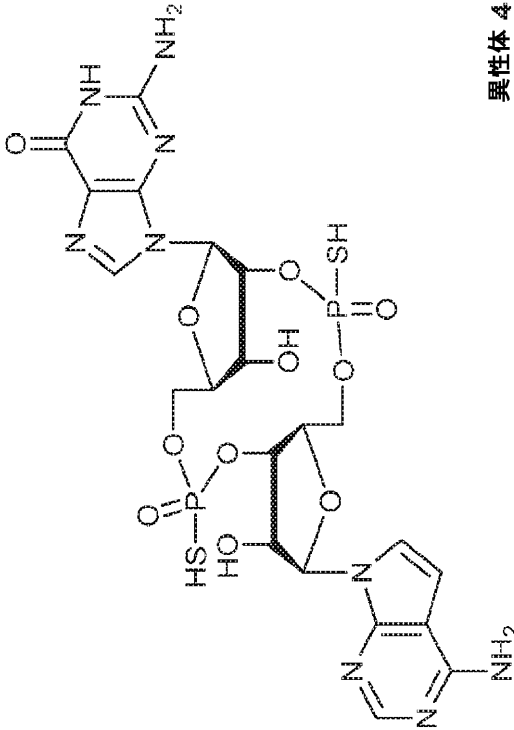
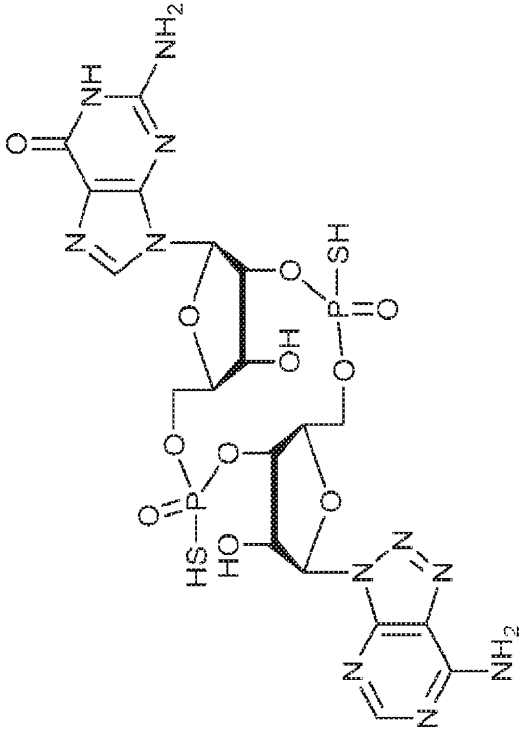
E8	異性体 1	8.59 (s, 1H) 8.18 (s, 1H) 8.01 (s, 1H) 6.18 (s, 1H) 5.98 (s, 1H)	55.1 -1.5	$[M+H]^+$ 691.0
E9	異性体 2	8.35 (s, 1H) 8.13 (s, 1H) 7.95 (s, 1H) 6.12 (s, 1H) 5.92 (s, 1H)	54.4 -1.6	$[M+H]^+$ 691.0

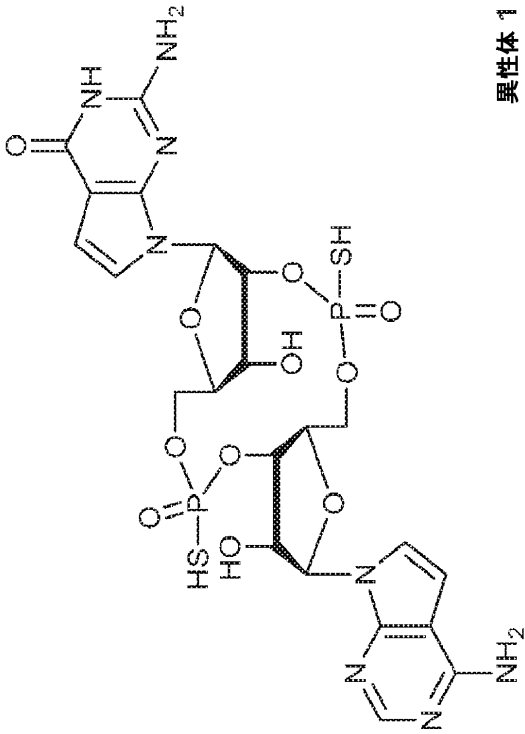
E10	 異性体 1	8.19 (s, 1H) 8.10 (s, 1H) 7.83 (s, 1H) 6.00 (d, J = 3.7 Hz, 1H) 5.84 (d, J = 5.0 Hz, 1H)	33.8 -0.4	[M+H]⁺ 657.2
E11	 異性体 2	8.08 (s, 1H) 8.01 (s, 1H) 7.85 (s, 1H) 6.00 (1H) 5.76 (1H)	32.1 -0.3	[M+H]⁺ 657.2

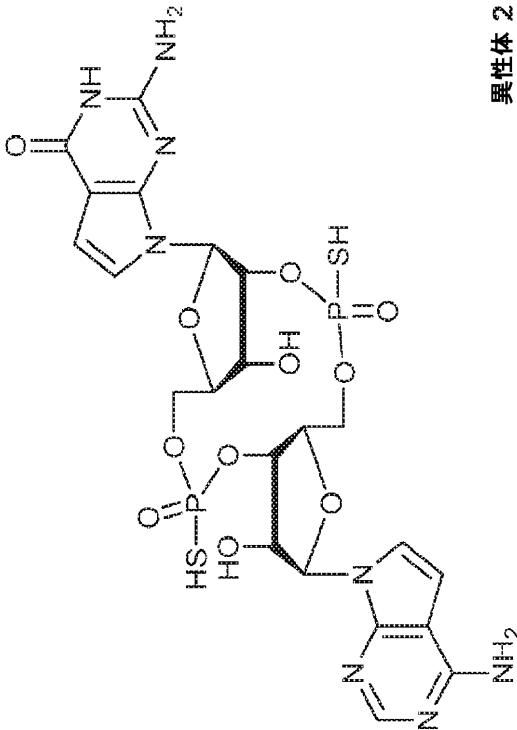
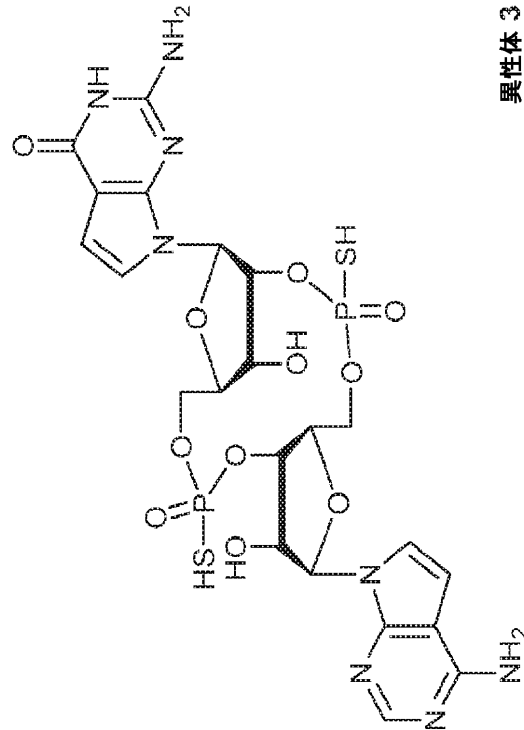
E12	 異性体 1		$[M+H]^+$ 707.0
E13	 異性体 2		$[M+H]^+$ 707.0

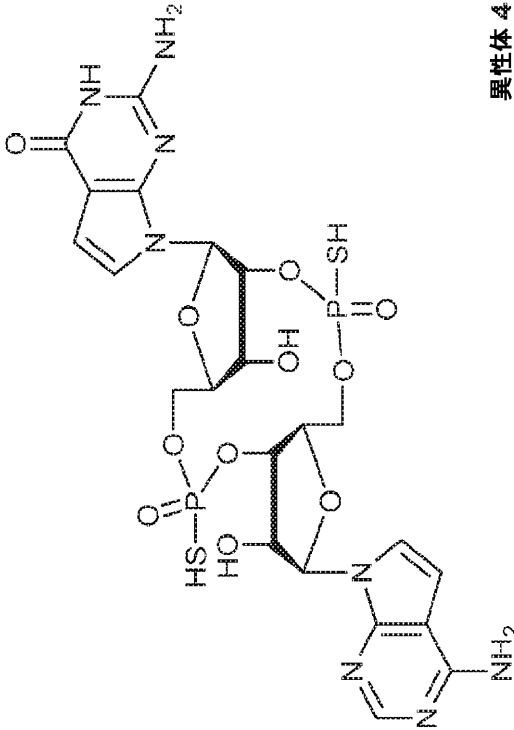
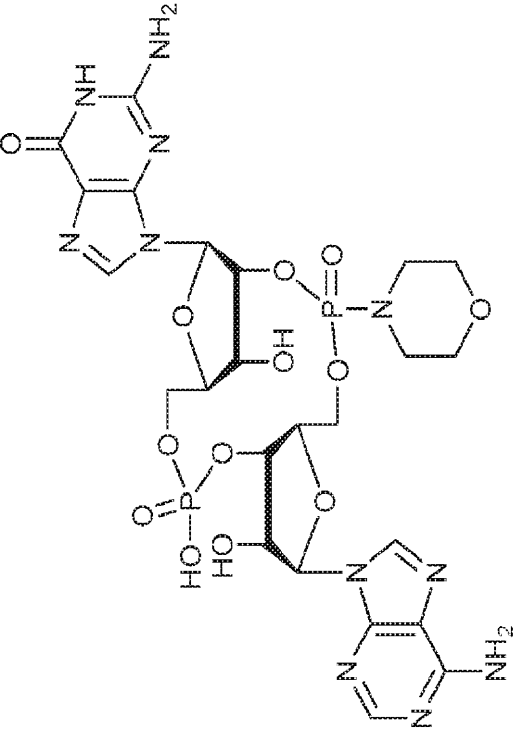
E14	 異性体 3		$[M+H]^+$ 707.0
E15	 異性体 1		$\frac{[M+2H]^{2+}}{2}$ 354.0

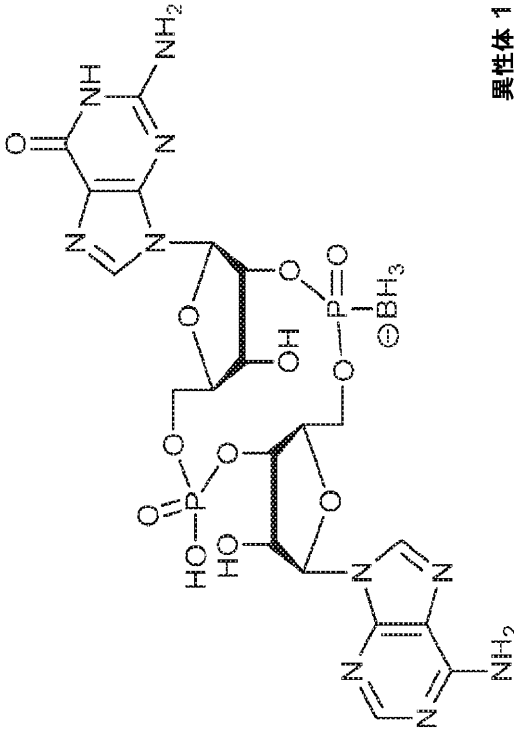
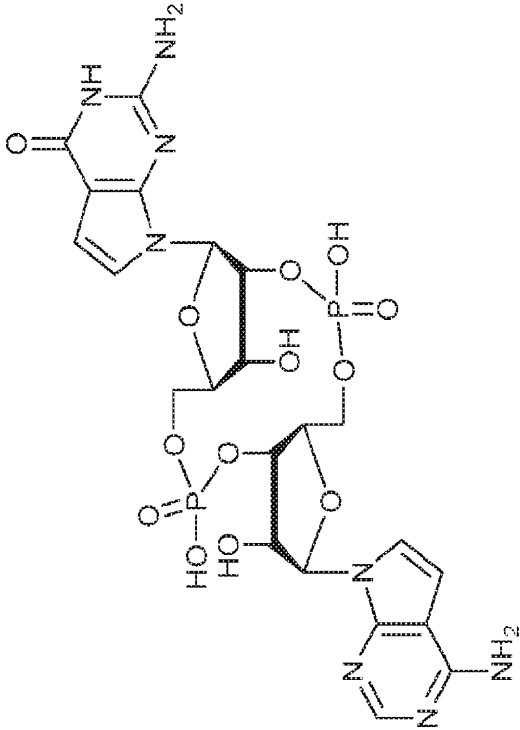
E16	 異性体 2	DMSO-<i>d</i>₆ 中 8.06 (s, 1H) 8.03 (s, 1H) 7.23 (d, <i>J</i> = 3.7 Hz, 1H) 6.59 (d, <i>J</i> = 3.7 Hz, 1H) 6.10 (d, <i>J</i> = 6.4 Hz, 1H) 5.87 (d, <i>J</i> = 8.5 Hz, 1H) 5.26 (ddd, <i>J</i> = 8.5, 6.8, 4.2 Hz, 1H) 5.06 (ddd, <i>J</i> = 8.0, 4.7, 2.8 Hz, 1H) DMSO-<i>d</i>₆ 中 57.9 51.7	[M+H]⁺ 706.1
E17	 異性体 3		[M+H]⁺ 706.1

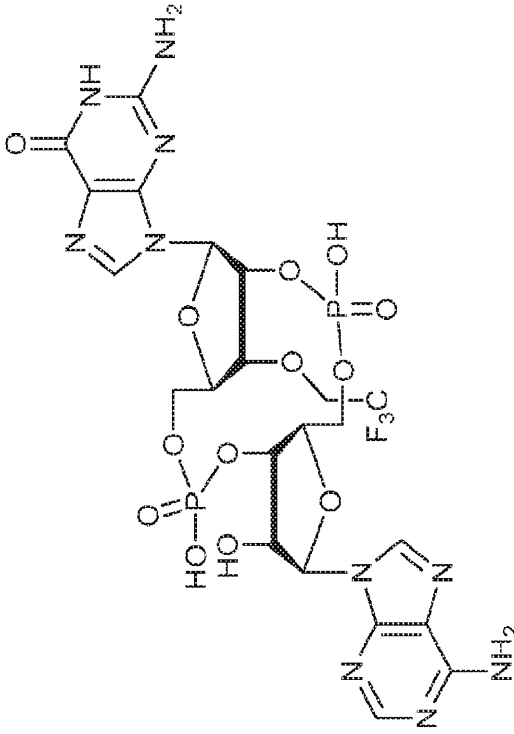
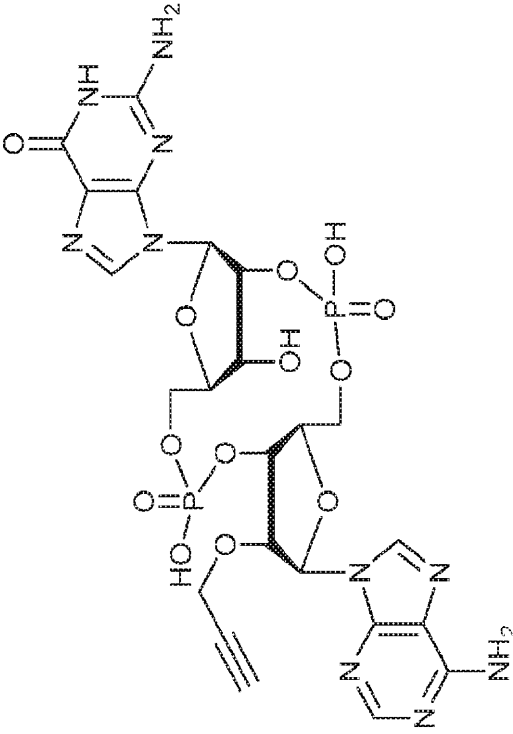
E18	 異性体 4	CD₃CN 中 8.23 (s, 1H) 8.19 (s, 1H) 7.43 (d, J = 3.8 Hz, 1H) 6.52 (d, J = 3.8 Hz, 1H) 6.19 (s, 1H) 5.89 (d, J = 8.5 Hz, 1H) 5.23 (m, 1H) 4.95 (m, 1H) CD₃CN 中 51.3 49.1 [M+H]⁺ 706.1	
E19	 異性体 4	D₂O 中 8.84 (s, 1H) 8.58 (s, 1H) 6.58 (d, J = 4.6 Hz, 1H) 6.24 (d, J = 8.5 Hz, 1H) 5.79 (m, 1H) 5.60 (m, 1H) D₂O 中 59.9 56.7 [M+H]⁺ 708.2	

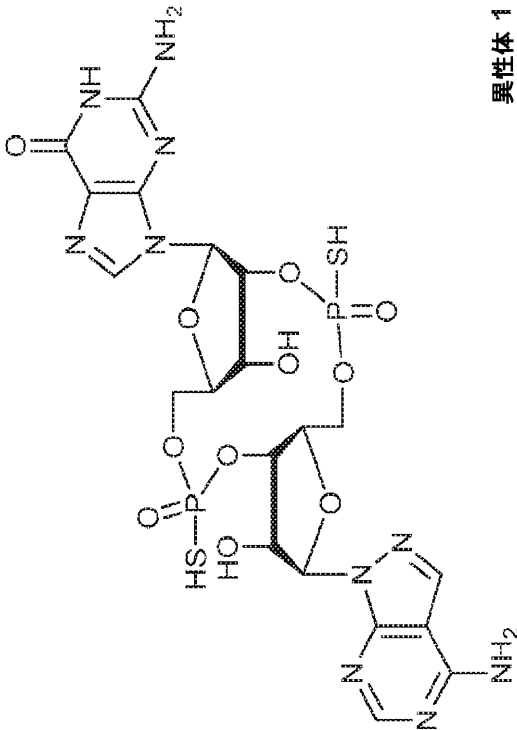
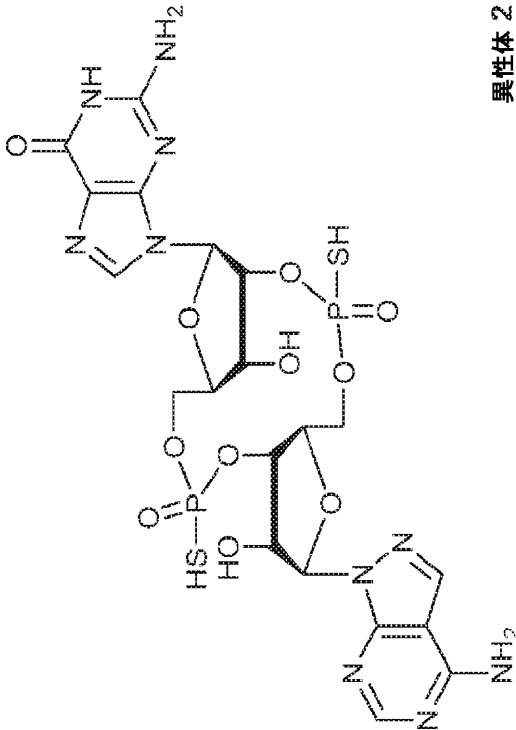
E20	 異性体 1	D₂O 中 8.57 (s, 1H) 7.83 (d, <i>J</i> = 3.8 Hz, 1H) 7.62 (d, <i>J</i> = 3.8 Hz, 1H) 7.06 (d, <i>J</i> = 3.8 Hz, 1H) 6.84 (d, <i>J</i> = 3.8 Hz, 1H) 6.61 (d, <i>J</i> = 6.2 Hz, 1H) 6.48 (d, <i>J</i> = 8.4 Hz, 1H) 5.69 (ddd, <i>J</i> = 8.0, 4.6, 3.1 Hz, 1H) 5.63 (ddd, <i>J</i> = 12.1, 8.4, 4.3 Hz, 1H)	D₂O 中 59.3 57.8	[M+H]⁺ 705.3
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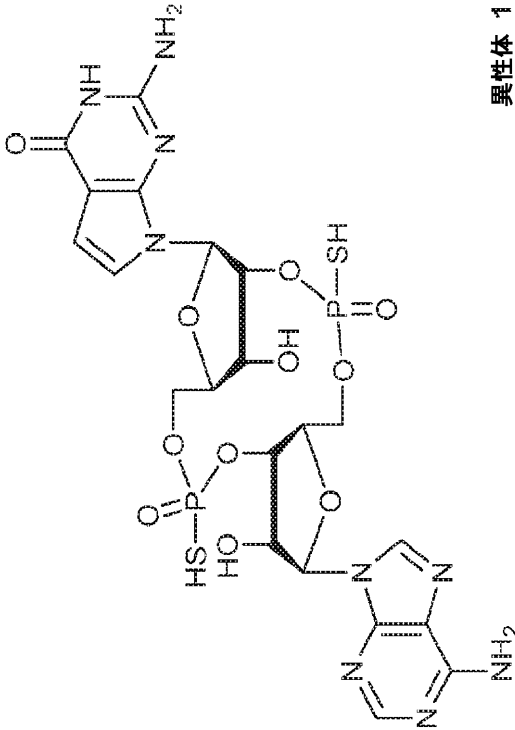
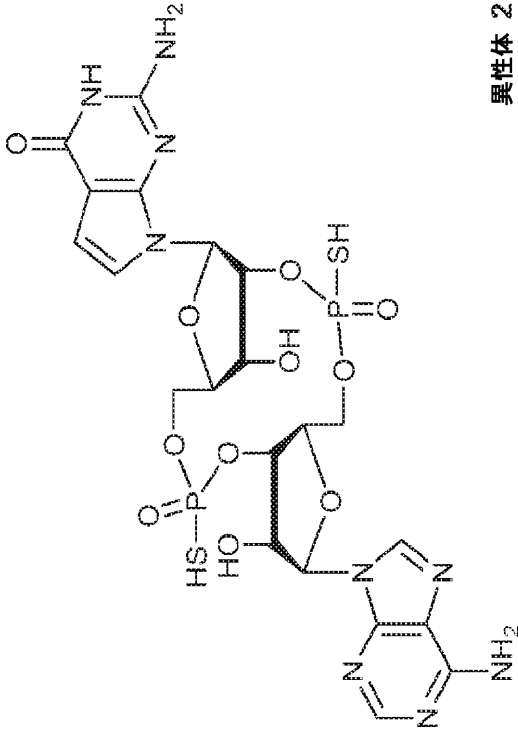
E21	 異性体 2	DMSO-d_6 中 8.34 (s, 1H) 7.62 (d, $J = 3.8$ Hz, 1H) 7.33 (d, $J = 3.8$ Hz, 1H) 6.94 (d, $J = 3.8$ Hz, 1H) 6.28 (d, $J = 3.8$ Hz, 1H) 6.13 (d, $J = 5.4$ Hz, 1H) 6.10 (d, $J = 8.4$ Hz, 1H)	DMSO-d_6 中 54.9 50.1 [M+H]⁺ 705.1
E22	 異性体 3	DMSO-d_6 中 8.35 (s, 1H) 7.65 (d, $J = 3.8$ Hz, 1H) 7.09 (d, $J = 3.8$ Hz, 1H) 6.97 (d, $J = 3.7$ Hz, 1H) 6.28 (d, $J = 3.7$ Hz, 1H) 6.11 (d, $J = 7.9$ Hz, 1H) 6.07 (d, $J = 8.5$ Hz, 1H) 5.28 (dd, $J = 8.6, 4.4$ Hz, 1H) 5.01 (m, 1H)	DMSO-d_6 中 59.7 58.9 [M+H]⁺ 705.1

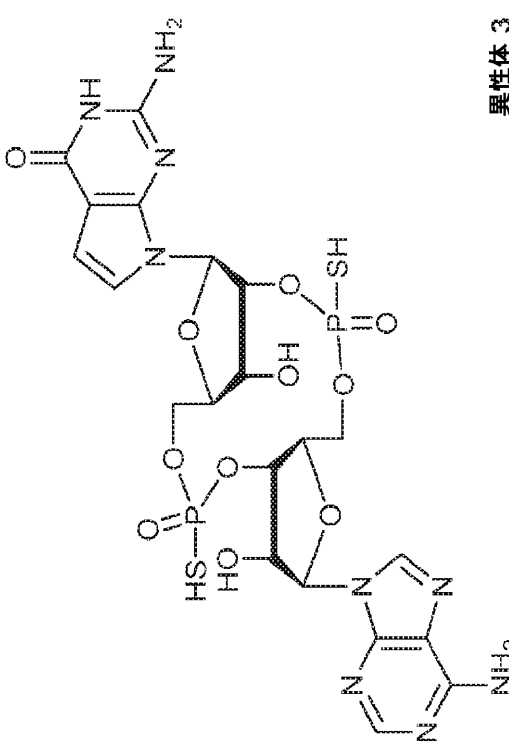
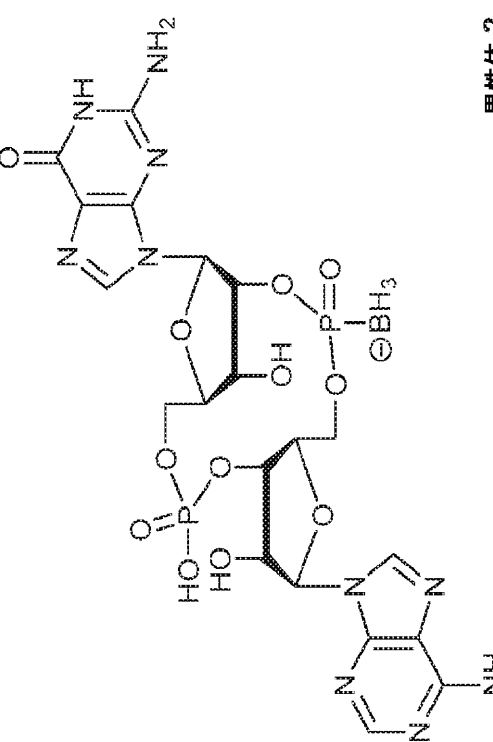
E23	 異性体 4	DMSO-<i>d</i>₆ 中 8.35 (s, 1H) 7.69 (d, <i>J</i> = 3.8 Hz, 1H) 7.07 (d, <i>J</i> = 3.8 Hz, 1H) 6.95 (d, <i>J</i> = 3.7 Hz, 1H) 6.31 (d, <i>J</i> = 3.7 Hz, 1H) 6.13 (d, <i>J</i> = 7.2 Hz, 1H) 6.06 (d, <i>J</i> = 8.5 Hz, 1H) 5.05 (m, 1H) 4.99 (m, 1H)	[M+H]⁺ 705.1
E24	 異性体 4	5.6 -1.4 8.32 (s, 1H) 8.02 (s, 1H) 7.98 (s, 1H) 6.18 (s, 1H) 6.07 (d, <i>J</i> = 8.7 Hz, 1H) 5.63 (ddd, <i>J</i> = 9.1, 5.0, 5.0, 1H)	[M+H]⁺ 744.0

E25	 異性体 1	8.55 (s, 1H) 8.45 (s, 1H) 8.29 (s, 1H) 6.27 (s, 1H) 5.96 (d, J = 8.3 Hz, 1H) 5.56 (m, 1H) 5.03 (ddd, J = 9.4, 6.5, 4.2 Hz, 1H)	-1.3	[M] ⁻ 671.2
EA1		DMSO-d₆ 中 8.07 (s, 1H) 7.37 (d, J = 3.8 Hz, 1H) 7.09 (d, J = 3.8 Hz, 1H) 6.65 (d, J = 3.7 Hz, 1H) 6.35 (d, J = 3.7 Hz, 1H) 6.08 (d, J = 7.4 Hz, 1H) 6.04 (d, J = 8.4 Hz, 1H) 4.85 (m, 1H) 4.81 (m, 1H)	DMSO-d ₆ 中 0.98 0.96	[M+H] ⁺ 673.1

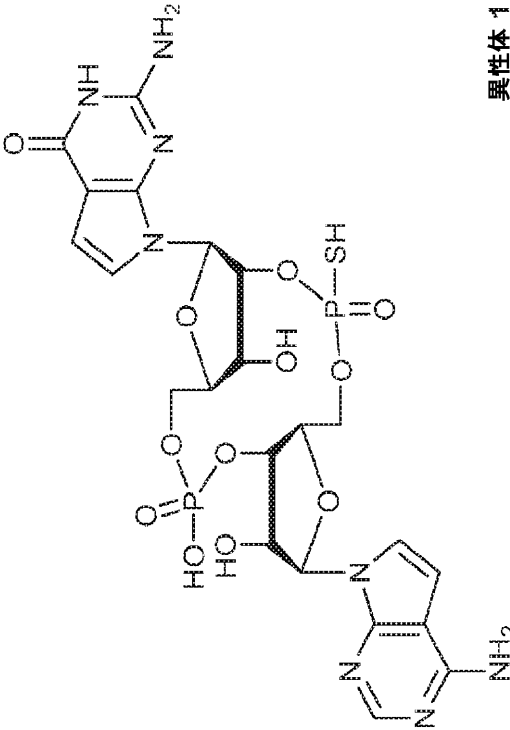
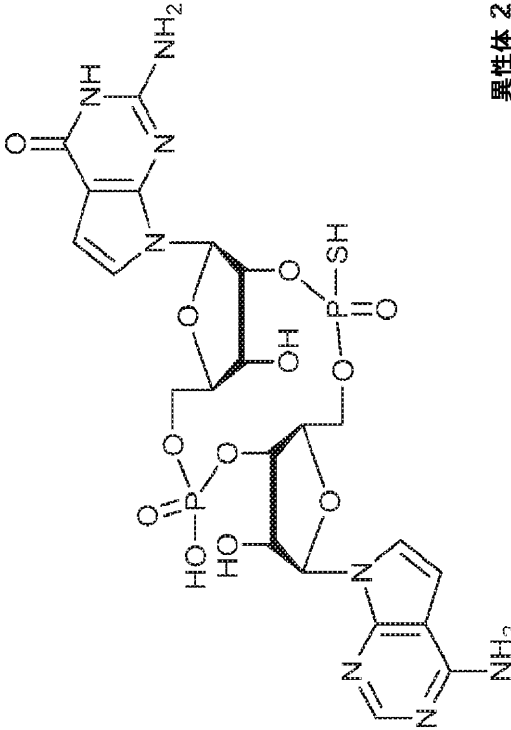
EA2		8.29 (s, 1H) 8.25 (s, 1H) 7.89 (s, 1H) 6.17 (s, 1H) 6.01 (d, $J = 8.6$ Hz, 1H) 5.69 (ddd, $J = 8.7$, 8.7, 4.0 Hz, 1H) 5.09 (m, 1H) D₂O中のNa⁺塩	[M+H]⁺ 757.0 [M-H]⁻ 755.0
EA3		8.26 (s, 1H) 8.23 (s, 1H) 7.85 (s, 1H) 6.27 (s, 1H) 5.92 (d, $J = 8.6$ Hz, 1H) 5.63 (m, 1H) 5.10 (m, 1H)	[M+H]⁺ 713.0 [M-H]⁻ 711.0

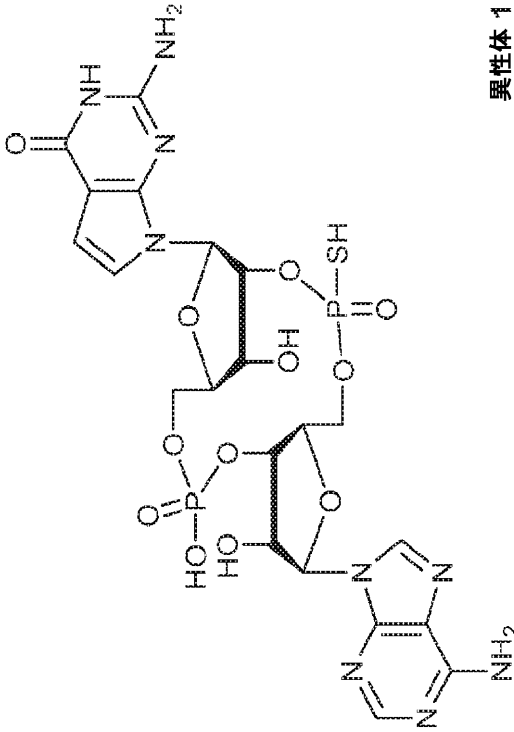
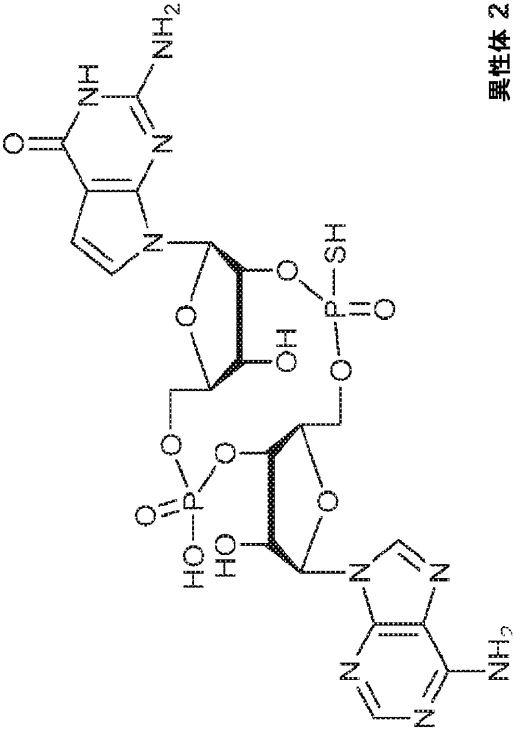
EA4	 異性体 1	CD₃CN 中 8.19 (s, 1H) 8.18 (s, 1H) 8.15 (brs, 1H) 6.25 (d, J = 3.3 Hz, 1H) 5.92 (d, J = 8.5 Hz, 1H) 5.24 (m, 2H)	CD₃CN 中 55.4 53.5 [M+H]⁺ 707.1
EA5	 異性体 2		CD₃CN 中 59.6 58.1 [M+H]⁺ 707.1

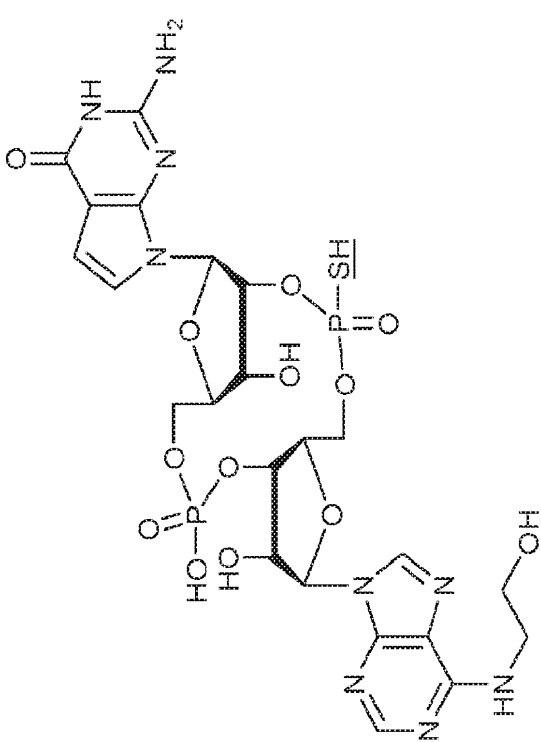
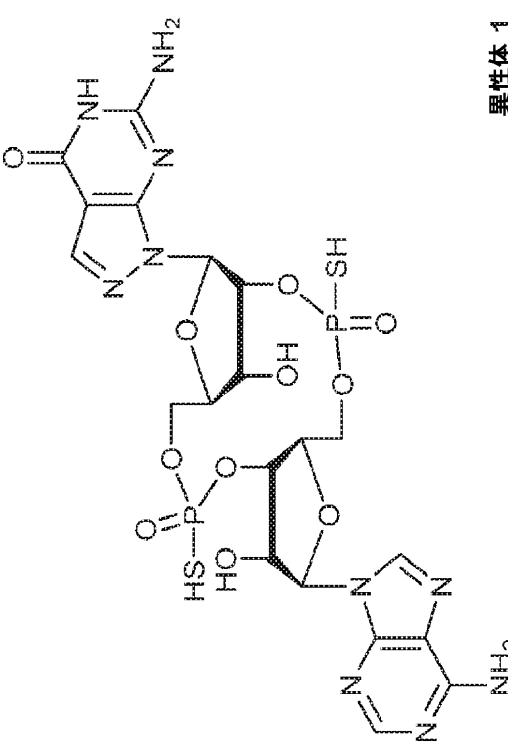
EA6	 異性体 1	D₂O 中 8.62 (s, 1H) 8.55 (s, 1H) 7.69 (d, J = 3.7 Hz, 1H) 6.59 (d, J = 3.7 Hz, 1H) 6.41 (d, J = 8.4 Hz, 1H) 6.37 (d, J = 4.6 Hz, 1H) 5.59 (m, 1H) 5.51 (m, 1H)		D₂O 中 [M+H]⁺ 706.0
EA7	 異性体 2	CD₃CN 中 56.7 55.6		CD₃CN 中 [M+H]⁺ 706.0

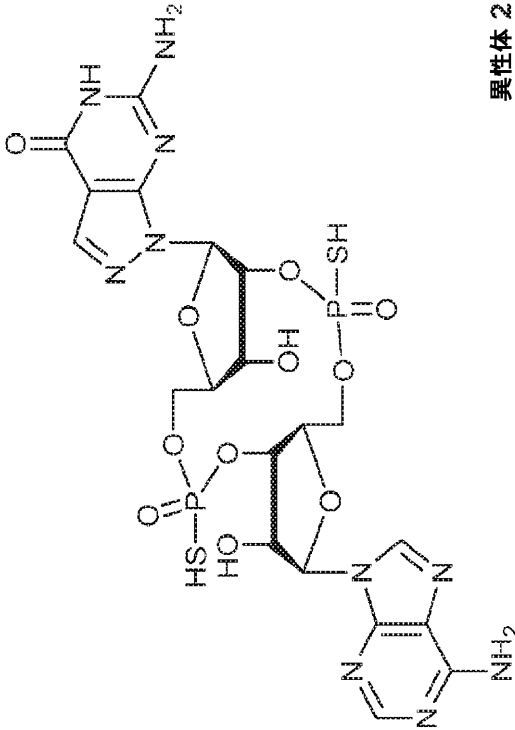
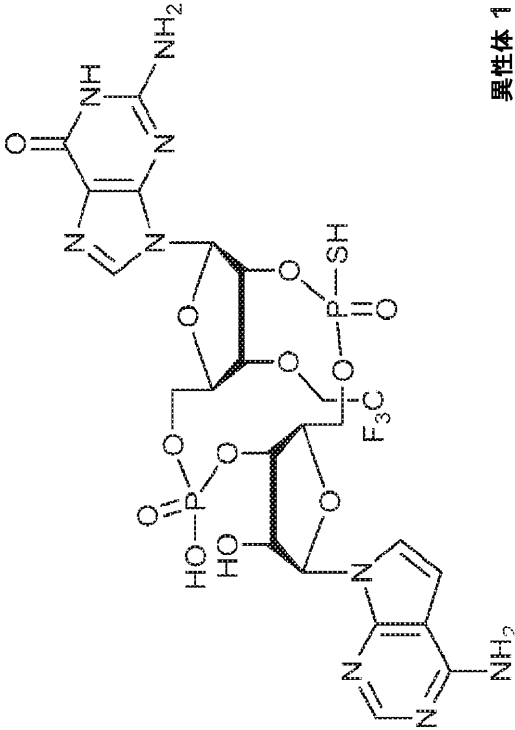
EA8	 異性体 3	CD ₃ CN 中 53.4 48.7	[M+H] ⁺ 705.9
EA9	 異性体 2	8.41 (s, 1H) 8.26 (s, 1H) 7.85 (s, 1H) 6.17 (s, 1H) 5.90 (d, J = 8.6 Hz, 1H) 5.76 (ddd, J = 8.8, 8.6, 4.1 Hz, 1H) 5.08 (m, 1H)	[M] ⁻ 671.2

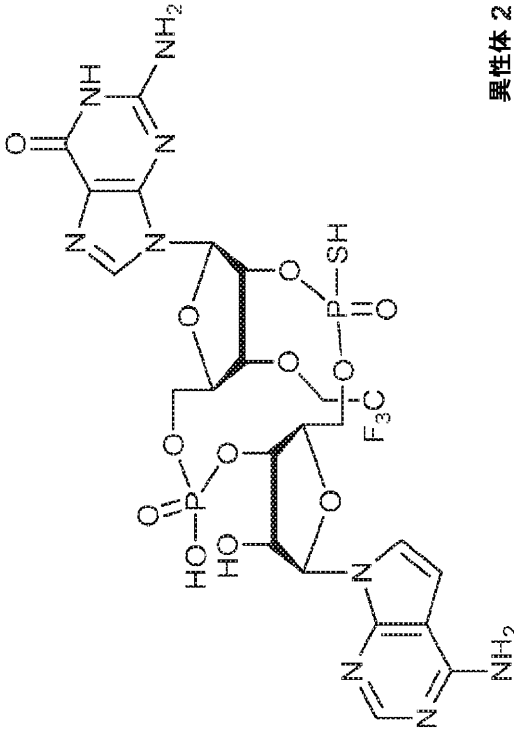
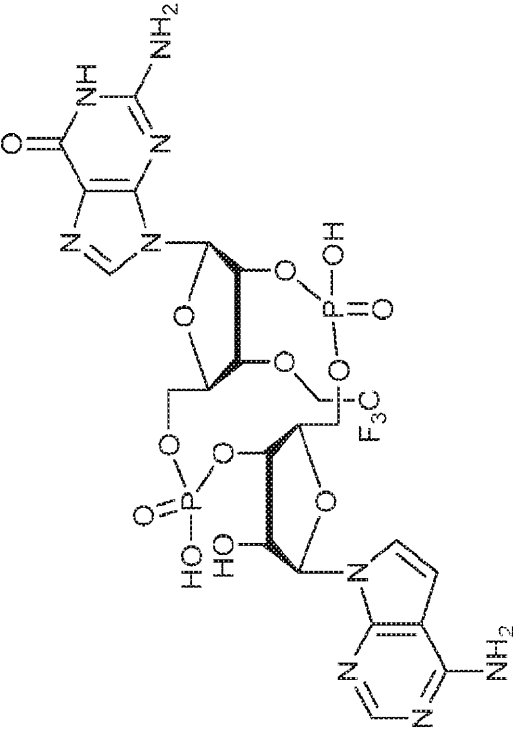
EA10		8.32 (s, 1H) 8.26 (s, 1H) 7.86 (s, 1H) 6.16 (s, 1H) 5.92 (d, $J = 8.5$ Hz, 1H) 5.67 (m, 1H) 5.21 (m, 1H)		[M]⁻ 671.2
EA11		8.43 (s, 1H) 8.41 (s, 1H) 6.19 (s, 1H) 6.07 (d, $J = 8.2$ Hz, 1H)		[M+H]⁻ 669.2

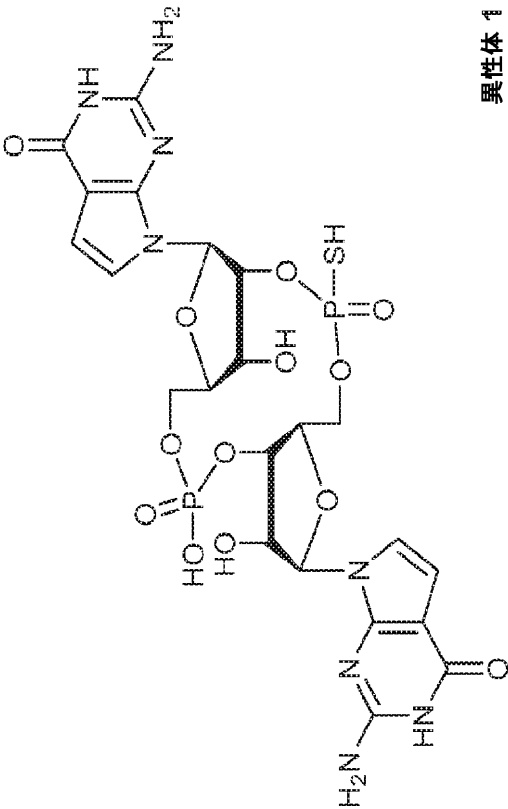
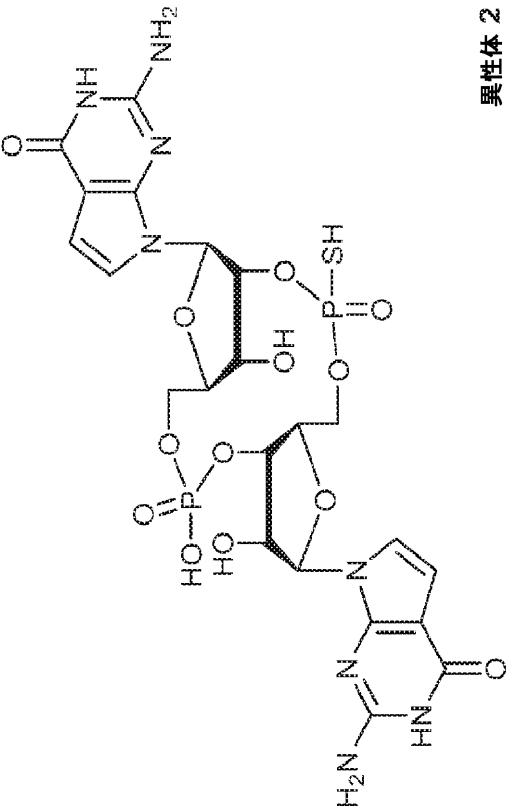
EB1	 異性体 1	8.16 (s, 1H) 7.48 (d, $J = 3.3$ Hz, 1H) 7.18 (d, $J = 3.3$ Hz, 1H) 6.50 (d, $J = 3.5$ Hz, 1H) 6.49 (d, $J = 3.5$ Hz, 1H) 6.29 (d, $J = 5.1$ Hz, 1H) 6.09 (d, $J = 8.7$ Hz, 1H) 5.49 (m, 1H) 5.17 (m, 1H)	[M+H]⁺ 689.0
EB2	 異性体 2	8.16 (s, 1H) 7.33 (d, $J = 3.8$ Hz, 1H) 7.07 (d, $J = 3.8$ Hz, 1H) 6.44 (d, $J = 3.8$ Hz, 1H) 6.33 (d, $J = 3.8$ Hz, 1H) 6.27 (d, $J = 2.5$ Hz, 1H) 6.01 (d, $J = 8.5$ Hz, 1H) 5.48 (dd, $J = 8.6, 8.5, 4.1$ Hz, 1H) 5.00 (ddd, $J = 7.1, 7.1, 4.7$ Hz, 1H)	[M+H]⁺ 689.0

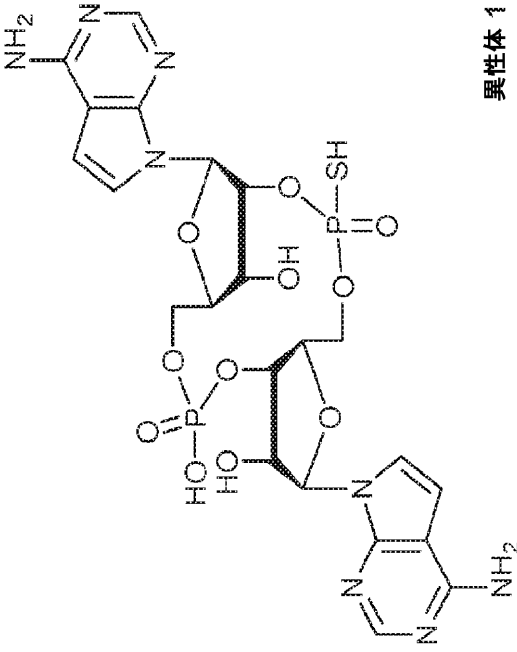
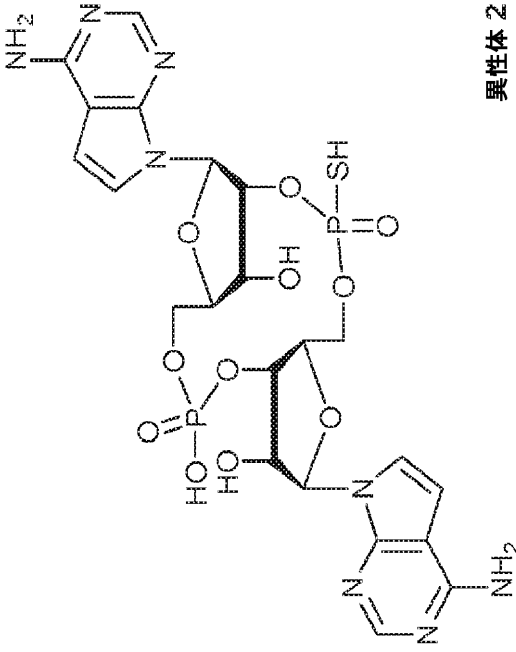
EB3	 異性体 1	8.26 (s, 1H) 8.25 (s, 1H) 6.95 (d, $J = 3.8$ Hz, 1H) 6.29 (d, $J = 3.8$ Hz, 1H) 6.15 (s, 1H) 5.93 (d, $J = 8.7$ Hz, 1H) 5.55 (m, 1H) 4.99 (m, 1H)	51.5 -1.3 [M+H]⁺ 690.0
EB4	 異性体 2	8.46 (s, 1H) 8.26 (s, 1H) 7.03 (d, $J = 3.7$ Hz, 1H) 6.38 (d, $J = 3.7$ Hz, 1H) 6.17 (d, $J = 2.7$ Hz, 1H) 5.99 (d, $J = 8.4$ Hz, 1H) 5.63 (m, 1H) 5.11 (ddd, $J = 6.7, 6.6, 4.5$ Hz, 1H)	56.1 -0.7 [M+H]⁺ 690.0

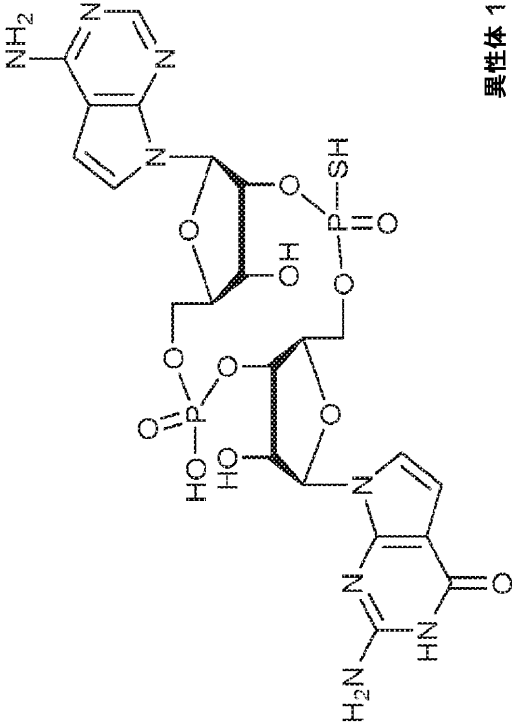
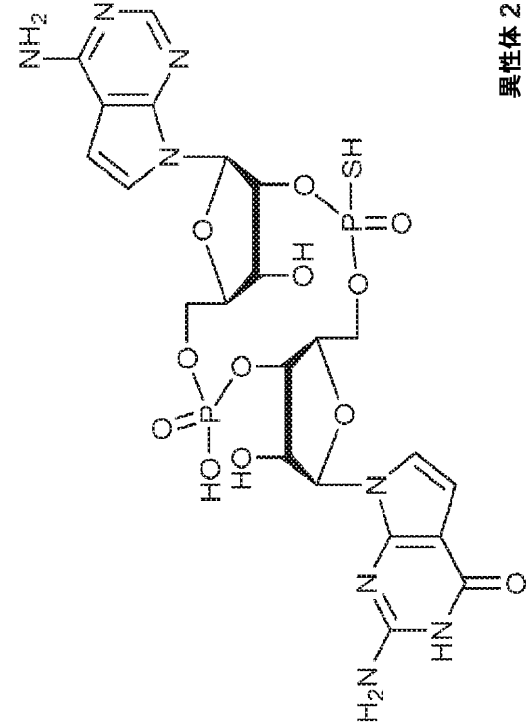
EB5		8.26 (s, 1H) 8.23 (s, 1H) 6.94 (d, $J = 3.7$ Hz, 1H) 6.26 (d, $J = 3.7$ Hz, 1H) 6.14 (s, 1H) 5.92 (d, $J = 8.5$ Hz, 1H) 5.55 (m, 1H) 5.00 (m, 1H)	51.5 -1.3	$[M+H]^+$ 734.0 $[M-H]^-$ 732.0
EB6	 異性体 1	8.55 (s, 1H) 8.26 (s, 1H) 7.55 (s, 1H) 6.22 (s, 1H) 6.08 (d, $J = 8.6$ Hz, 1H) 5.81 (ddd, $J = 10.4$, 8.6, 4.0 Hz, 1H) 5.32 (ddd, $J = 8.9$, 8.8, 4.3 Hz, 1H)	54.1 52.5	$[M-H]^-$ 705.0

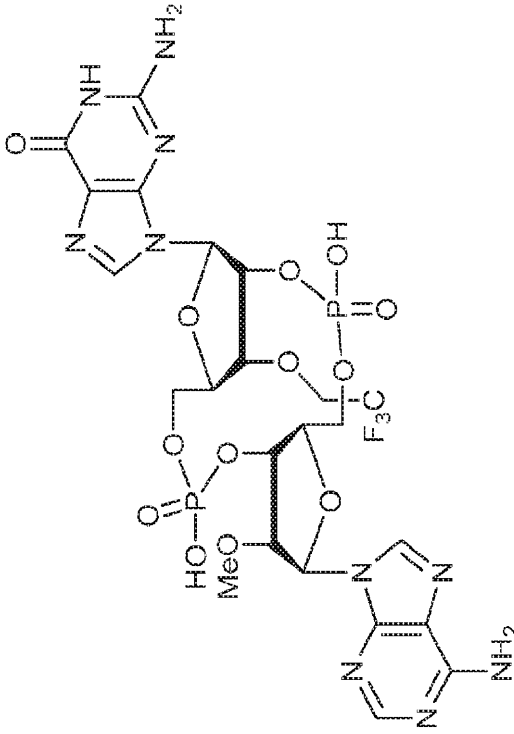
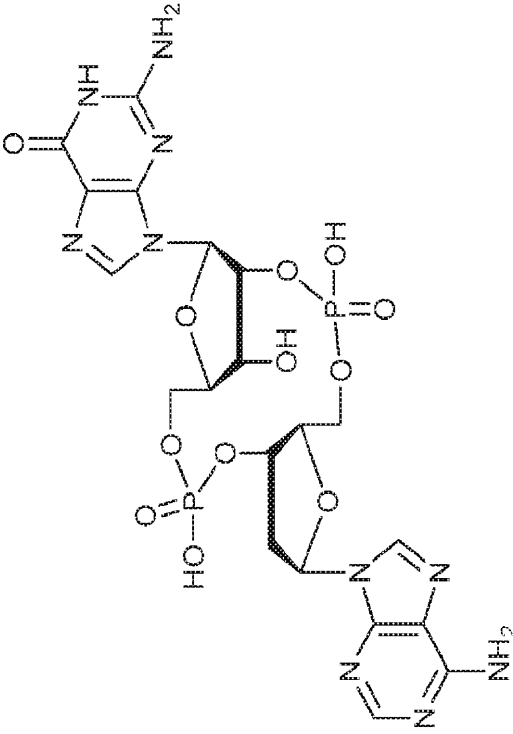
EB7	 異性体 2	8.59 (s, 1H) 8.26 (s, 1H) 7.79 (s, 1H) 6.21 (s, 1H) 6.05 (d, J = 8.6 Hz, 1H) 5.88 (ddd, J = 10.5, 8.6, 4.1 Hz, 1H) 5.31 (ddd, J = 8.4, 8.4, 4.1 Hz, 1H)	55.4 54.2	[M-H]⁻ 705.0
EC1	 異性体 1	8.15 (s, 1H) 7.89 (s, 1H) 7.35 (d, J = 3.8 Hz, 1H) 6.27 (s, 1H) 6.26 (d, J = 3.8 Hz, 1H) 5.98 (d, J = 8.6 Hz, 1H) 5.75 (ddd, J = 9.2, 9.1, 4.1 Hz, 1H) 5.07 (m, 1H)	52.0 -1.3	[M+H]⁺ 772.1

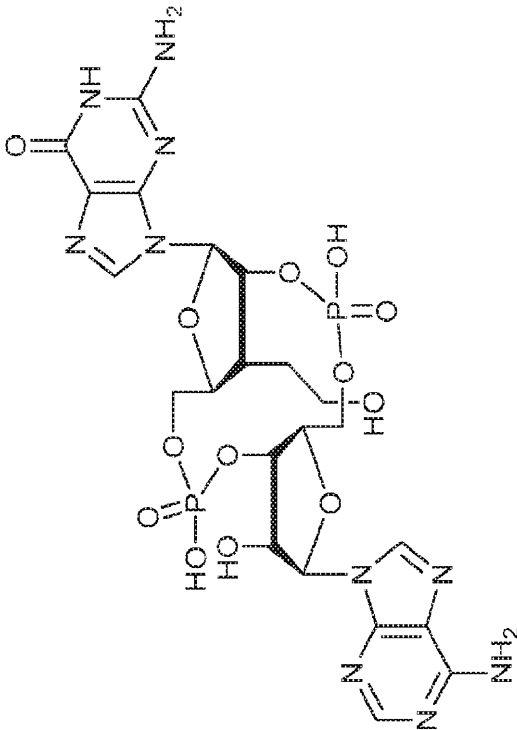
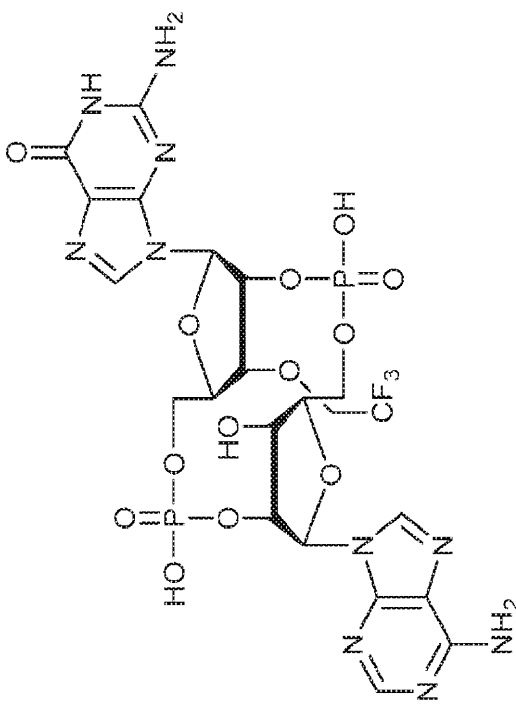
EC2	 異性体 2	8.15 (s, 1H) 7.97 (s, 1H) 7.56 (d, $J = 3.8$ Hz, 1H) 6.37 (d, $J = 3.8$ Hz, 1H) 6.30 (d, $J = 3.1$ Hz, 1H) 6.02 (d, $J = 8.5$ Hz, 1H) 5.78 (ddd, $J = 12.6$, 8.5, 4.1 Hz, 1H) 5.16 (m, 1H)	[M+H]⁺ 772.1
EC3		8.15 (s, 1H) 7.87 (s, 1H) 7.33 (d, $J = 3.8$ Hz, 1H) 6.27 (s, 1H) 6.24 (d, $J = 3.8$ Hz, 1H) 5.98 (d, $J = 8.6$ Hz, 1H) 5.68 (ddd, $J = 8.5$, 8.45, 4.0 Hz, 1H) 5.08 (ddd, $J = 7.7$, 7.5, 4.5 Hz, 1H)	[M+H]⁺ 756.2

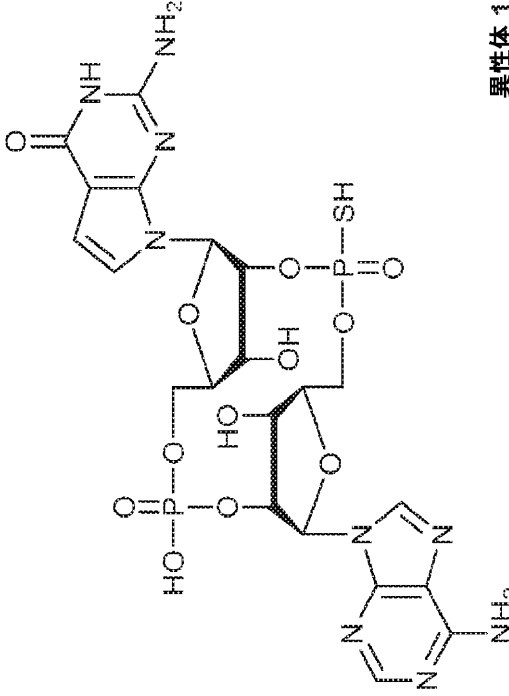
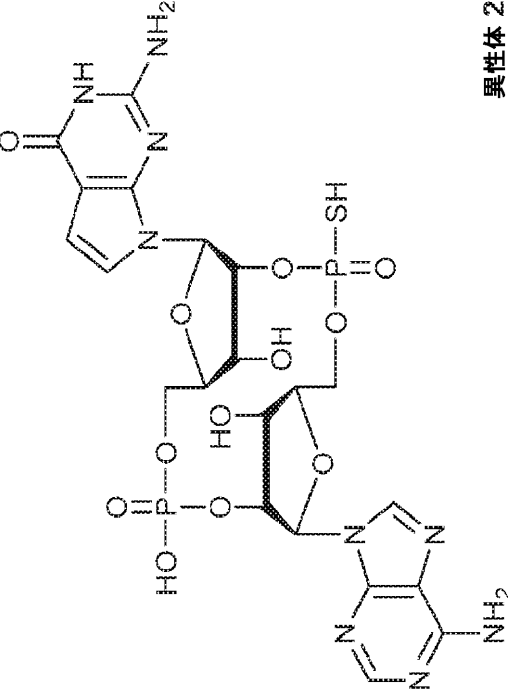
EC4	 異性体 1	DMSO- d_6 / D ₂ O 中 7.03 (d, $J = 3.7$ Hz, 1H) 6.88 (m, 1H) 6.34 (d, $J = 3.7$ Hz, 1H) 6.31 (d, $J = 3.7$ Hz, 1H) 6.08 (m, 1H) 5.93 (m, 1H) 5.05 (m, 1H) 4.98 (m, 1H)	[M+H] ⁺ 705.0
EC5	 異性体 2	DMSO- d_6 / D ₂ O 中 7.02 (d, $J = 3.7$ Hz, 1H) 6.92 (d, $J = 3.7$ Hz, 1H) 6.33 (m, 2H) 6.09 (d, $J = 8.7$ Hz, 1H) 5.92 (d, $J = 7.9$ Hz, 1H) 4.94 (m, 1H) 4.81 (m, 1H) 4.60 (m, 1H) 4.43 (m, 1H)	[M+H] ⁺ 704.9

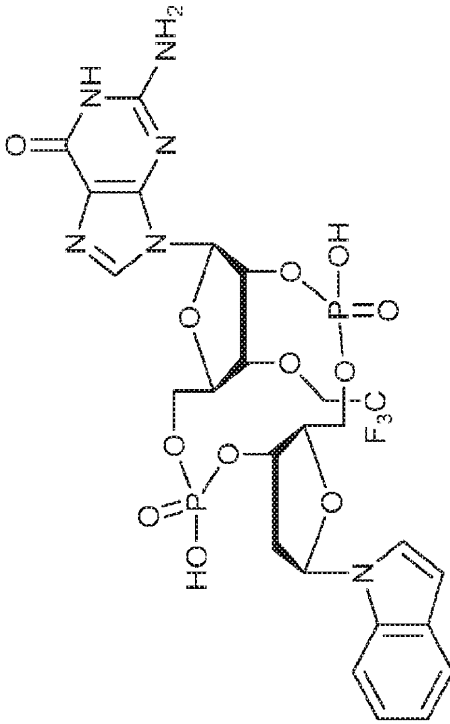
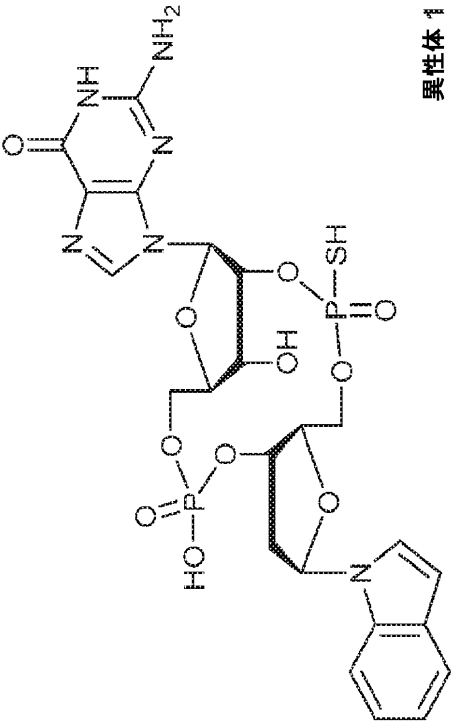
EC6	 異性体 1	8.11 (s, 1H) 8.11 (s, 1H) 7.59 (d, J = 3.8 Hz, 1H) 7.20 (d, J = 3.9 Hz, 1H) 6.40 (m, 2H) 6.22 (m, 2H) 5.23 (ddd, J = 9.0, 8.8, 4.2 Hz, 1H) 4.94 (m, 1H)	52.9 -1.0 [M+H]⁺ 673.0
EC7	 異性体 2	8.103 (s, 1H) 8.102 (s, 1H) 7.67 (d, J = 3.9 Hz, 1H) 7.34 (d, J = 3.9 Hz, 1H) 6.58 (d, J = 3.8 Hz, 1H) 6.51 (d, J = 3.8 Hz, 1H) 6.42 (d, J = 8.4 Hz, 1H) 6.23 (d, J = 6.5 Hz, 1H)	59.1 0.1 [M+H]⁺ 673.0

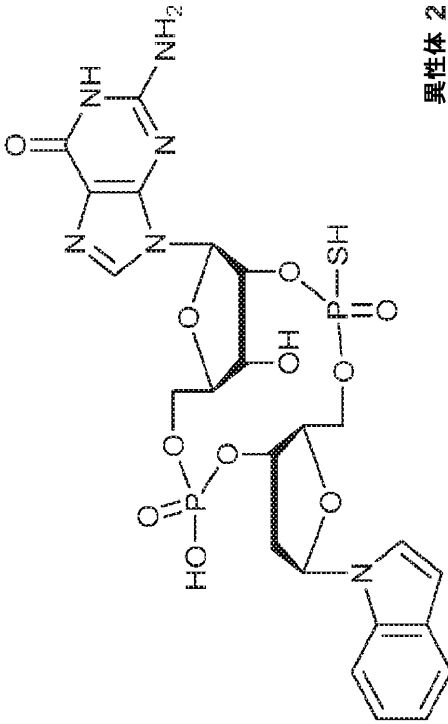
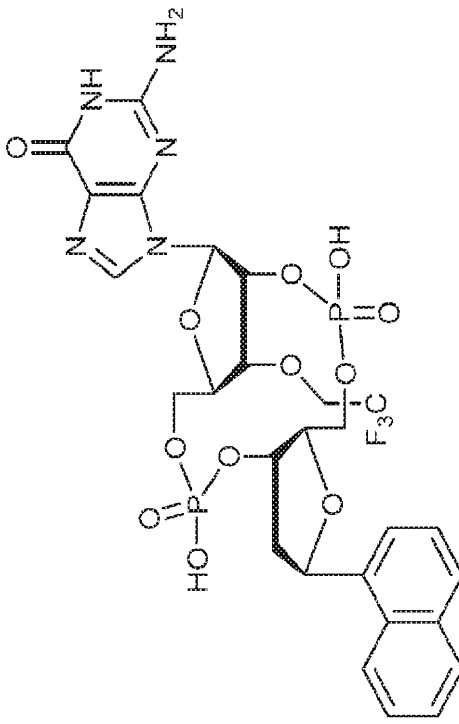
EC8	 異性体 1	DMSO-d_6 中 8.27 (s, 2H) 8.05 (s, 1H) 7.47 (d, $J = 3.8$ Hz, 1H) 6.92 (d, $J = 3.7$ Hz, 1H) 6.65 (d, $J = 3.7$ Hz, 1H) 6.30 (m, 2H) 5.99 (d, $J = 8.2$ Hz, 1H) 5.01 (m, 1H) 4.85 (m, 1H)	DMSO-d_6 中 49.5 0.9 [M+H]⁺ 689.2
EC9	 異性体 2	DMSO-d_6 中 8.29 (s, 2H) 8.04 (s, 1H) 7.50 (d, $J = 3.8$ Hz, 1H) 6.82 (d, $J = 3.7$ Hz, 1H) 6.59 (d, $J = 3.8$ Hz, 1H) 6.35 (d, $J = 3.7$ Hz, 1H) 6.29 (d, $J = 8.5$ Hz, 1H) 5.98 (d, $J = 8.5$ Hz, 1H) 5.11 (m, 1H) 4.40 (m, 1H)	DMSO-d_6 中 57.1 1.4 [M+H]⁺ 689.1

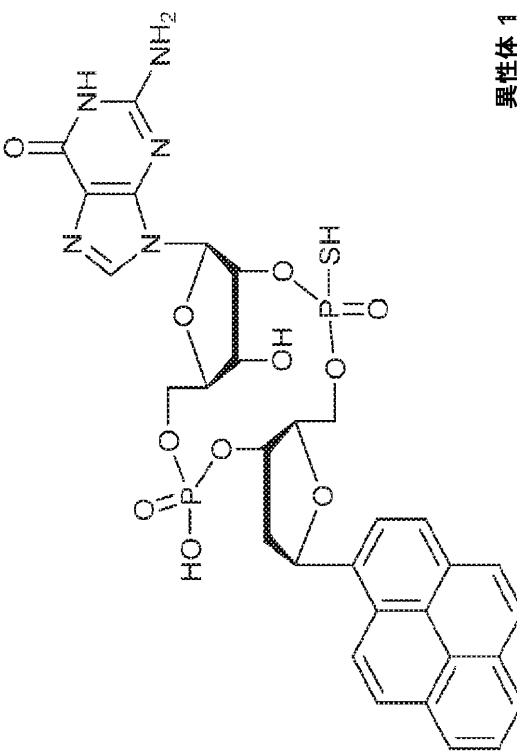
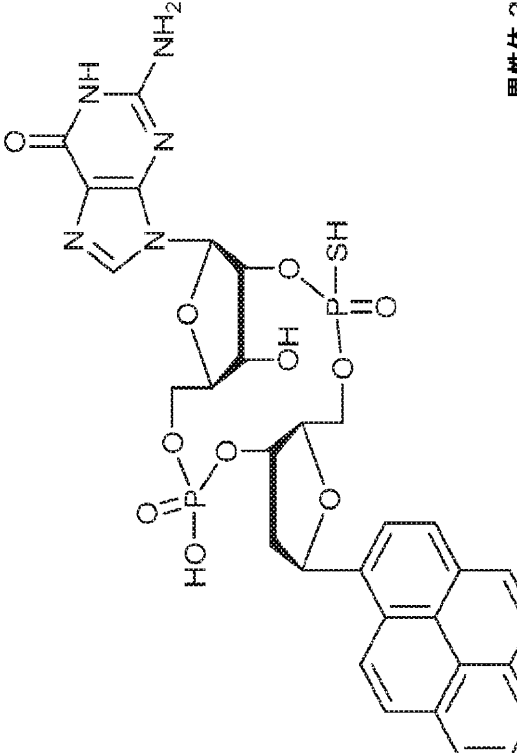
EC10		8.28 (s, 1H) 8.26 (s, 1H) 7.83 (s, 1H) 6.26 (s, 1H) 5.96 (d, $J = 8.6$ Hz, 1H) 5.76 (ddd, $J = 8.6$, 8.6, 4.1 Hz, 1H) 5.09 (m, 1H)	-1.6 -2.7 [M+H]⁺ 771.2
EC11		8.32 (s, 1H) 8.27 (s, 1H) 7.93 (s, 1H) 6.47 (m, 1H) 5.97 (d, $J = 8.3$ Hz, 1H) 5.58 (m, 1H) 5.19 (m, 1H)	[M+H]⁺ 659.0 [M-H]⁻ 656.8

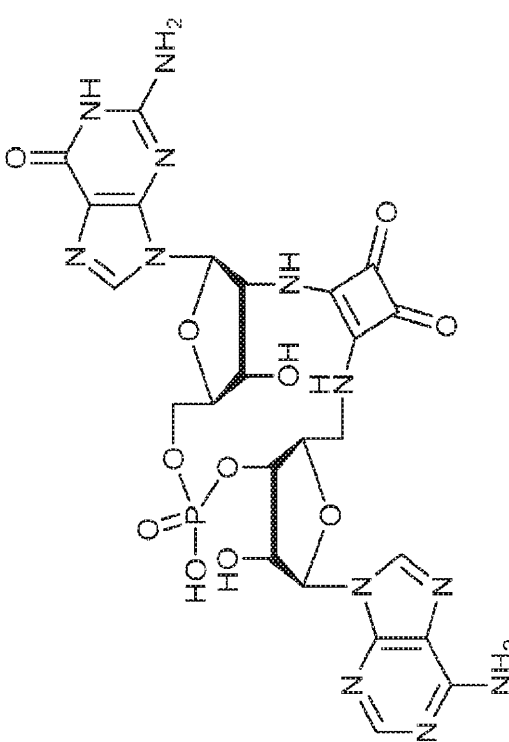
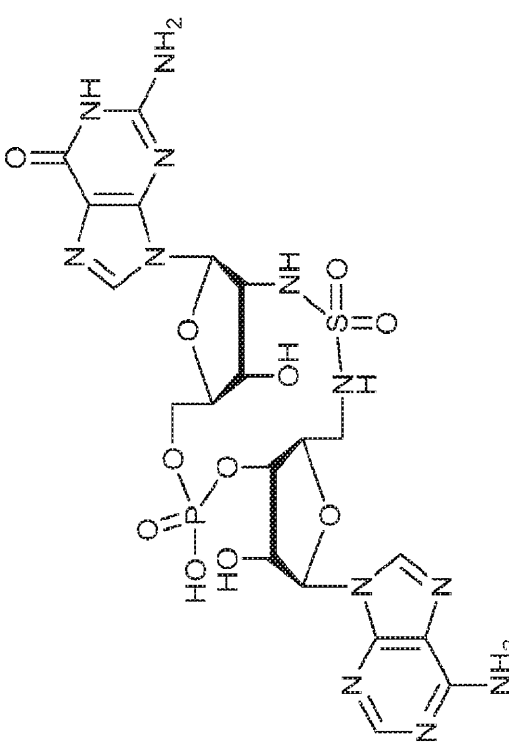
EC12		8.30 (s, 1H) 8.25 (s, 1H) 7.84 (s, 1H) 6.16 (s, 1H) 5.88 (d, $J = 8.4$ Hz, 1H) 5.73 (ddd, $J = 8.0$, 8.0, 8.0 Hz, 1H) 5.08 (m, 1H)	-1.0 -2.4	[M+H]⁺ 703.0
EC13		8.36 (s, 1H) 8.18 (s, 1H) 7.84 (s, 1H) 6.29 (d, $J = 8.1$ Hz, 1H) 5.99 (d, $J = 8.4$ Hz, 1H) 5.38 (ddd, $J = 8.1$, 7.9, 4.4 Hz, 1H) 5.09 (ddd, $J = 8.3$, 4.2, 4.2 Hz, 1H)	-1.3 -1.8	[M+H]⁺ 757.0

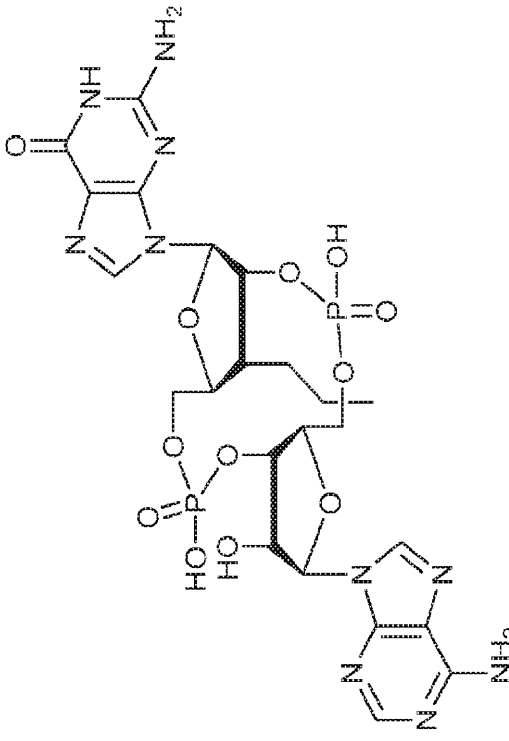
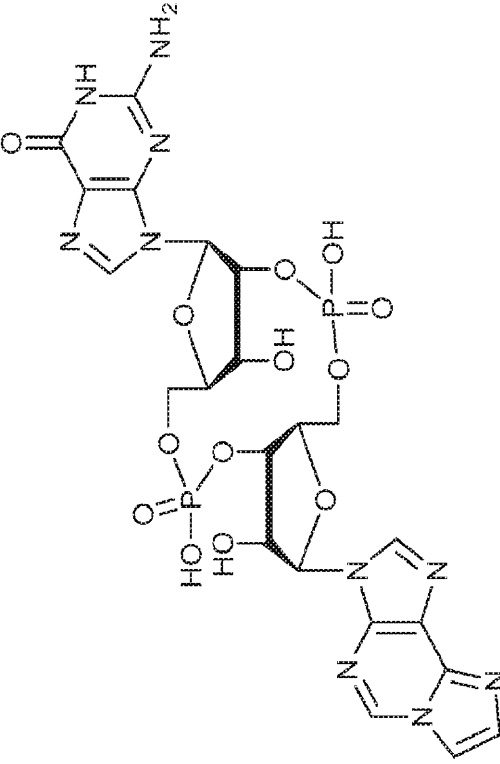
EC14	 異性体 1	8.69 (s, 1H) 8.13 (s, 1H) 6.88 (d, $J = 3.8$ Hz, 1H) 6.34 (d, $J = 3.8$ Hz, 1H) 6.28 (d, $J = 8.1$ Hz, 1H) 6.10 (d, $J = 8.1$ Hz, 1H) 5.17 (m, 2H)	56.7 -1.5 [M+H]⁺ 689.9
EC15	 異性体 2	8.35 (s, 1H) 7.93 (s, 1H) 6.77 (d, $J = 3.8$ Hz, 1H) 6.25 (d, $J = 8.1$ Hz, 1H) 6.17 (d, $J = 3.8$ Hz, 1H) 6.10 (d, $J = 8.1$ Hz, 1H) 5.19 (ddd, $J = 8.6$, 4.6 Hz, 1H) 5.14 (ddd, $J = 8.5$, 4.4, 4.4 Hz, 1H)	52.1 -1.6 [M+H]⁺ 690.0

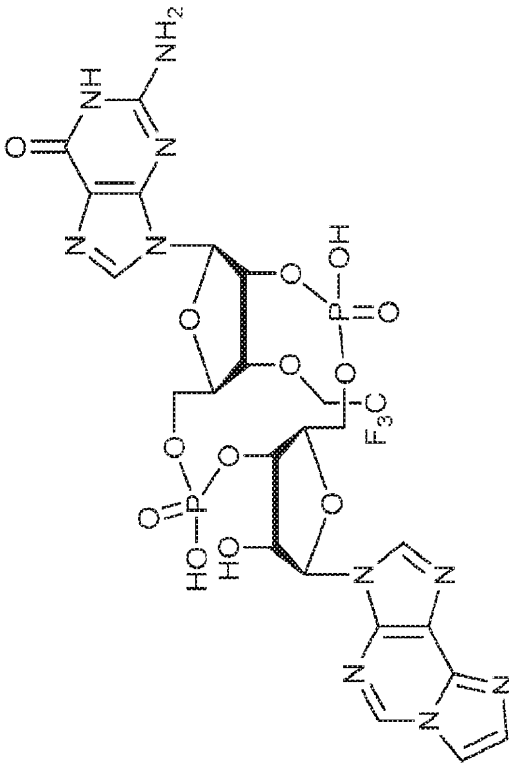
EC16		8.03 (s, 1H) 7.68 (m, 1H) 7.58 (d, $J = 8.0$ Hz, 1H) 7.44 (d, $J = 3.4$ Hz, 1H) 7.20 (m, 2H) 6.59 (t, $J = 6.5$ Hz, 1H) 6.55 (d, $J = 3.4$ Hz, 1H) 6.05 (d, $J = 8.5$ Hz, 1H) 5.55 (m, 1H) 5.20 (m, 1H)	-1.0 -1.1	$[M+H]^+$ 723.1
EC17	 異性体 1	8.03 (s, 1H) 7.67 (m, 1H) 7.58 (m, 1H) 7.44 (d, $J = 3.4$ Hz, 1H) 7.18 (m, 2H) 6.57 (t, $J = 6.4$ Hz, 1H) 6.52 (m, 1H) 6.02 (d, $J = 8.5$ Hz, 1H) 5.57 (m, 1H) 5.20 (m, 1H)	53.0 -1.0	$[M+H]^+$ 657.0 $[M-H]^-$ 655.0

EC18	 異性体 2	8.16 (s, 1H) 7.68 (d, $J = 7.8$ Hz, 1H) 7.62 (d, $J = 8.1$ Hz, 1H) 7.52 (d, $J = 3.5$ Hz, 1H) 7.26 (m, 1H) 7.19 (m, 1H) 6.61 (m, 2H) 6.05 (d, $J = 8.3$ Hz, 1H) 5.50 (m, 1H) 5.31 (m, 1H)	[M+H]⁺ 657.0 [M-H]⁻ 655.0
EC19		8.06 (m, 1H) 7.99 (m, 1H) 7.97 (s, 1H) 7.84 (d, $J = 8.3$ Hz, 1H) 7.69 (d, $J = 7.2$ Hz, 1H) 7.59 (m, 2H) 7.32 (t, $J = 7.7$ Hz, 1H) 6.02 (m, 2H) 5.52 (ddd, $J = 8.7$, 8.7, 4.2 Hz, 1H) 5.08 (m, 1H)	[M+H]⁺ 734.0

EC20	 異性体 1	9.12 (s, 1H) 8.29 (d, $J = 9.3$ Hz, 1H) 8.12 (m, 5H) 8.00 (s, 2H) 7.93 (t, $J = 7.6$ Hz, 1H) 6.18 (m, 2H) 5.36 (m, 2H)	[M+H]⁺ 742.1
EC21	 異性体 2	9.09 (s, 1H) 8.28 (d, $J = 9.3$ Hz, 1H) 8.11 (m, 5H) 7.98 (s, 2H) 7.93 (t, $J = 7.6$ Hz, 1H) 6.17 (dd, $J = 10.5, 5.3$ Hz, 1H) 6.13 (d, $J = 8.0$ Hz, 1H) 5.46 (m, 1H) 5.13 (m, 1H)	[M+H]⁺ 742.0

EC22		8.21 (s, 1H) 8.14 (s, 1H) 7.82 (s, 1H) 6.19 (d, $J = 7.7$ Hz, 1H) 6.00 (d, $J = 3.1$ Hz, 1H)	-0.1	[M+H]⁺ 689.0
EC23		8.15 (s, 1H) 7.91 (s, 1H) 7.44 (s, 1H) 6.17 (s, 1H) 5.88 (d, $J = 9.0$ Hz, 1H) 5.13 (m, 2H)	-1.24	[M+H]⁺ 672.9

EC24		8.31 (s, 1H) 8.26 (s, 1H) 7.84 (s, 1H) 6.17 (s, 1H) 5.86 (d, J = 8.4 Hz, 1H) 5.68 (m, 1H) 5.08 (m, 1H)	-1.0 -2.2	[M+H]⁺ 701.2 [M-H]⁻ 699.0
EC25		9.08 (s, 1H) 8.38 (s, 1H) 7.96 (s, 1H) 7.90 (s, 1H) 7.57 (s, 1H) 6.28 (s, 1H) 5.95 (d, J = 8.5 Hz, 1H) 5.64 (ddd, J = 8.3, 8.3, 4.2 Hz, 1H) 5.08 (ddd, J = 8.8, 6.5, 4.3 Hz, 1H)	-1.3 -2.0	[M-H]⁻ 697.1

EC26		9.15 (s, 1H) 8.40 (s, 1H) 8.02 (s, 1H) 7.90 (s, 1H) 7.63 (s, 1H) 6.32 (s, 1H) 5.98 (d, $J = 8.6$ Hz, 1H) 5.72 (ddd, $J = 8.7$, 8.7, 4.1 Hz, 1H) 5.11 (ddd, $J = 8.6$, 6.8, 4.3 Hz, 1H)	-1.3 -2.3	$[M-H]^-$ 779.0
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* 別途言及がない限りは $\text{NaH}_2\text{PO}_4/\text{Na}_2\text{HPO}_4/\text{D}_2\text{O}$ 中。