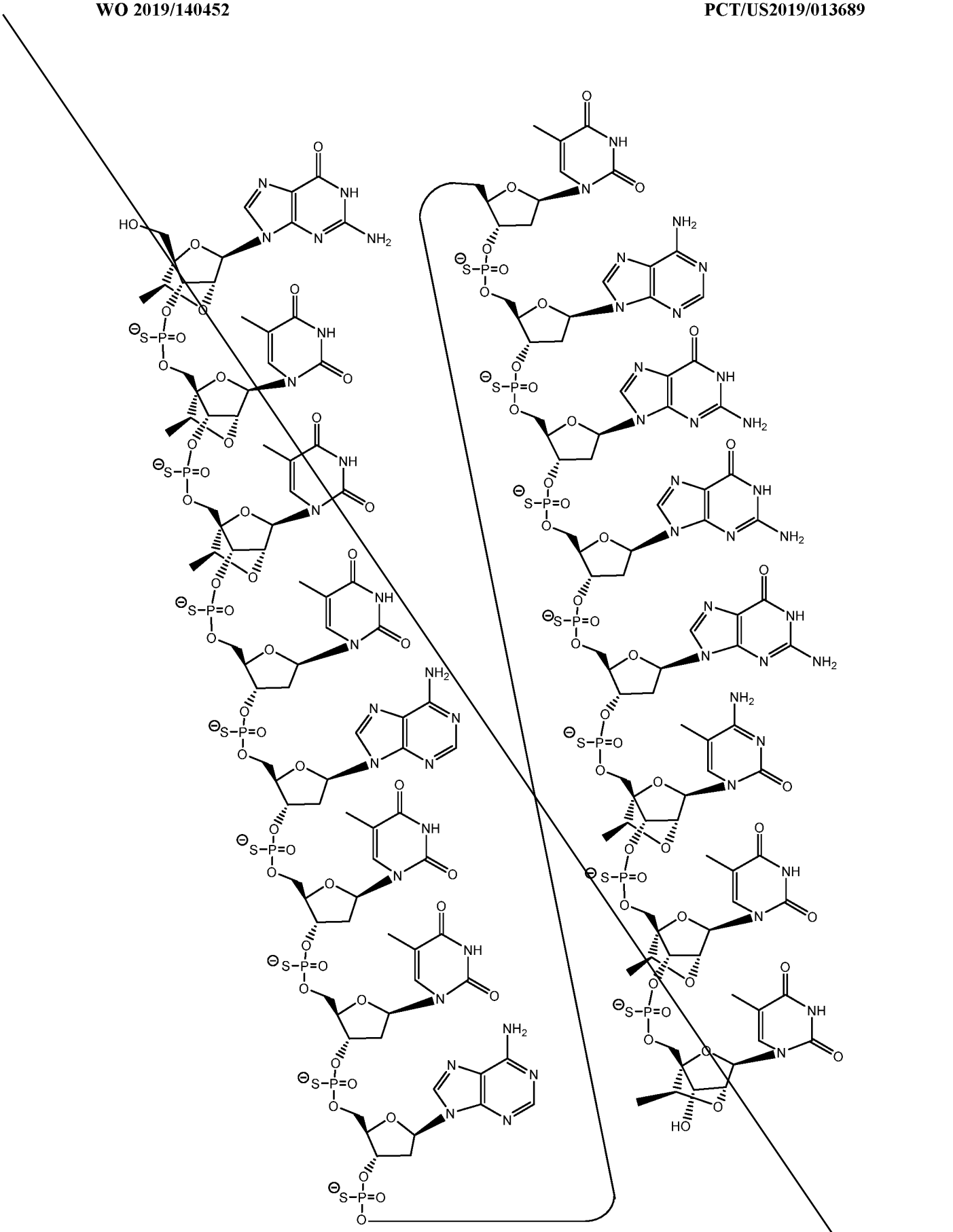
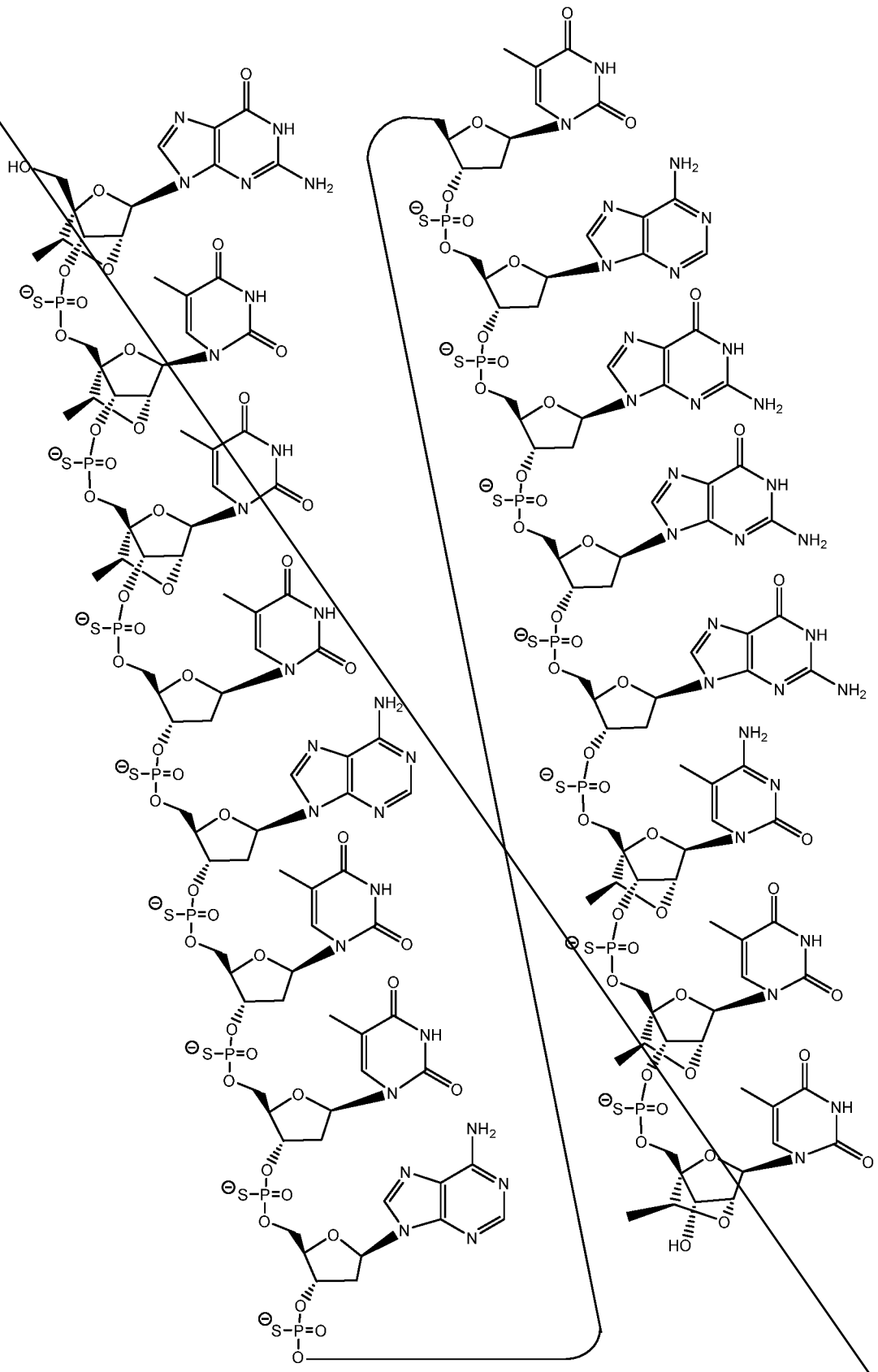
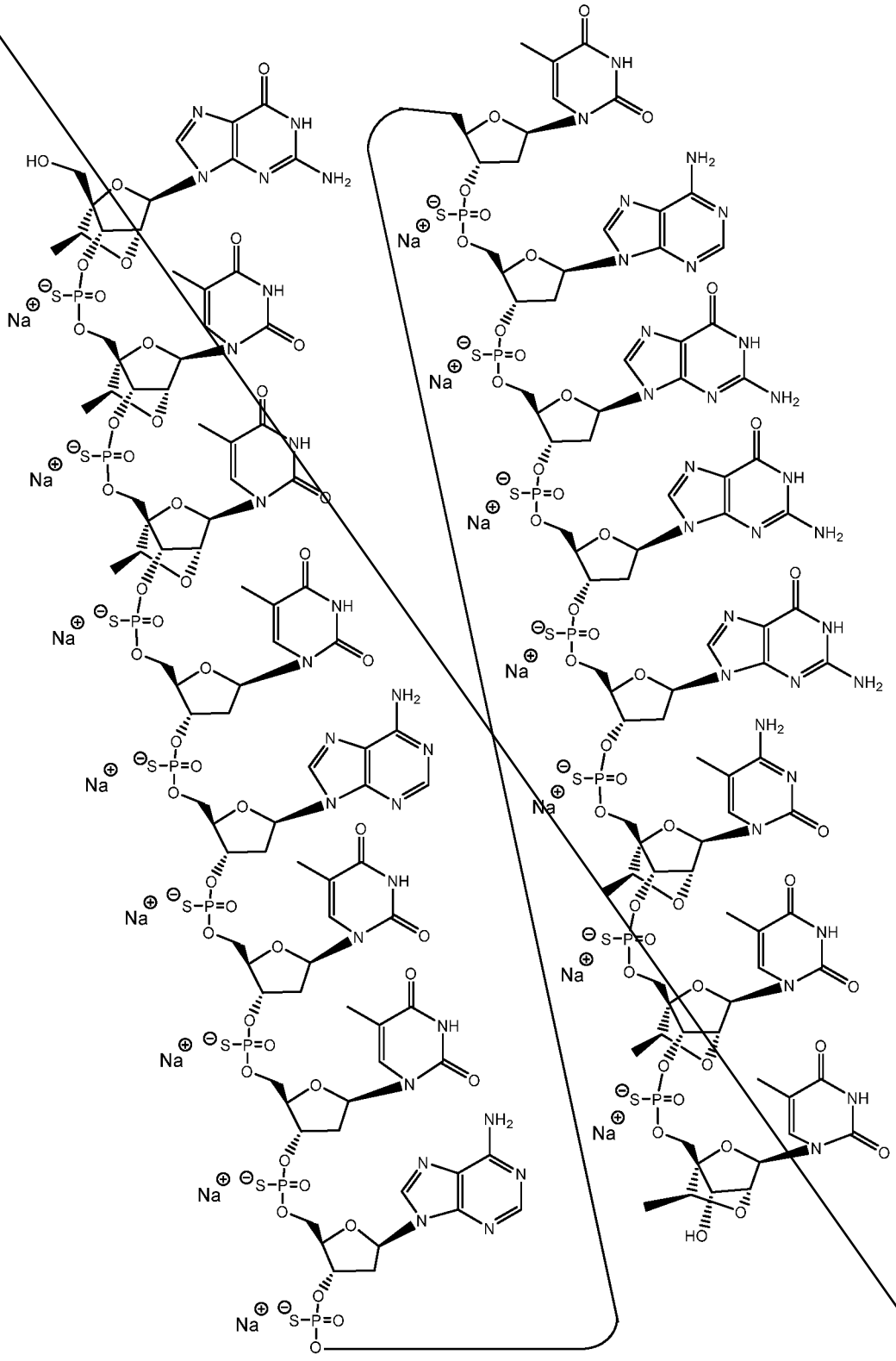


[SEQ ID NO: 2879] or a salt thereof.

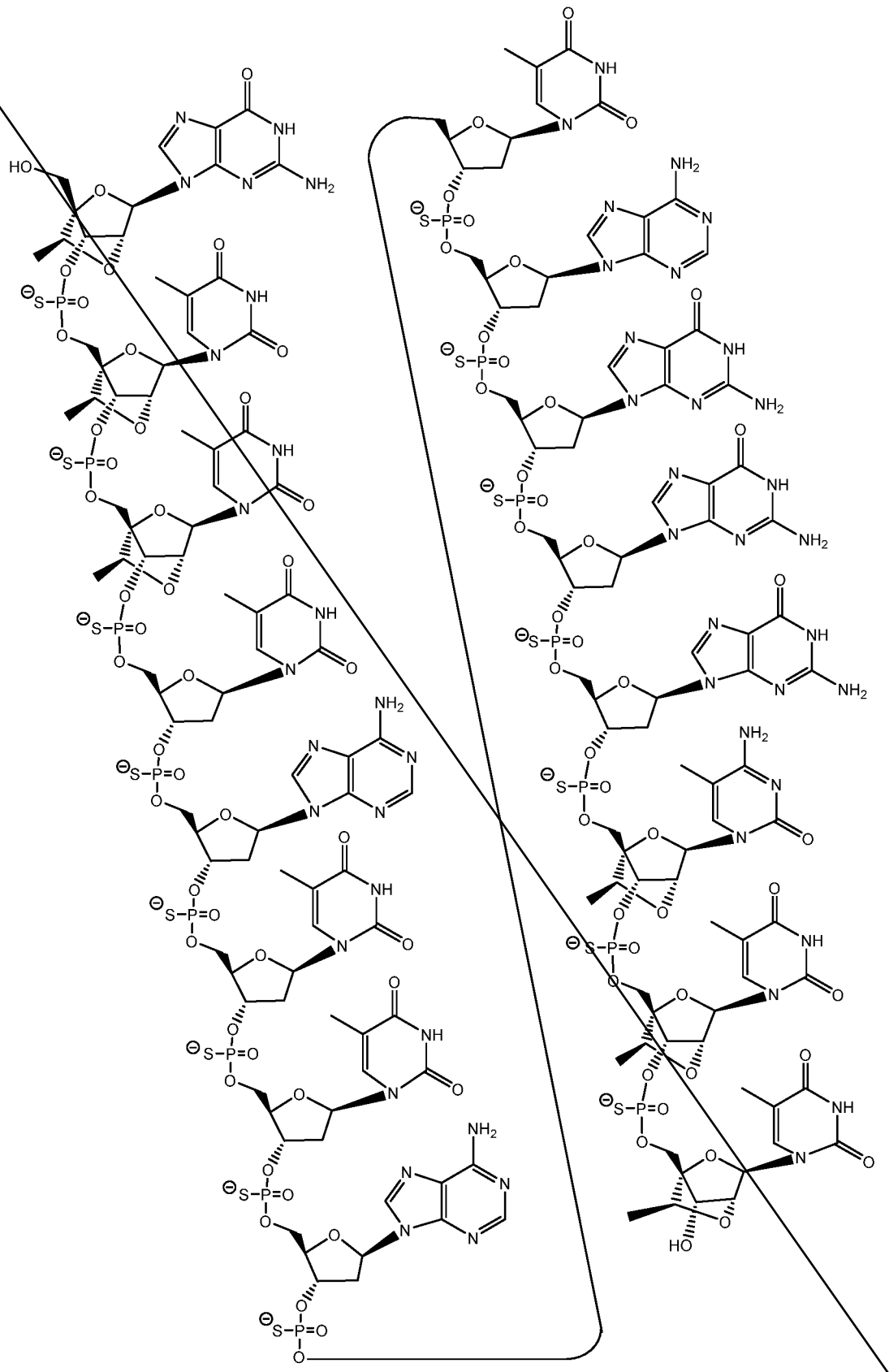


[SEQ ID NO: 2879]

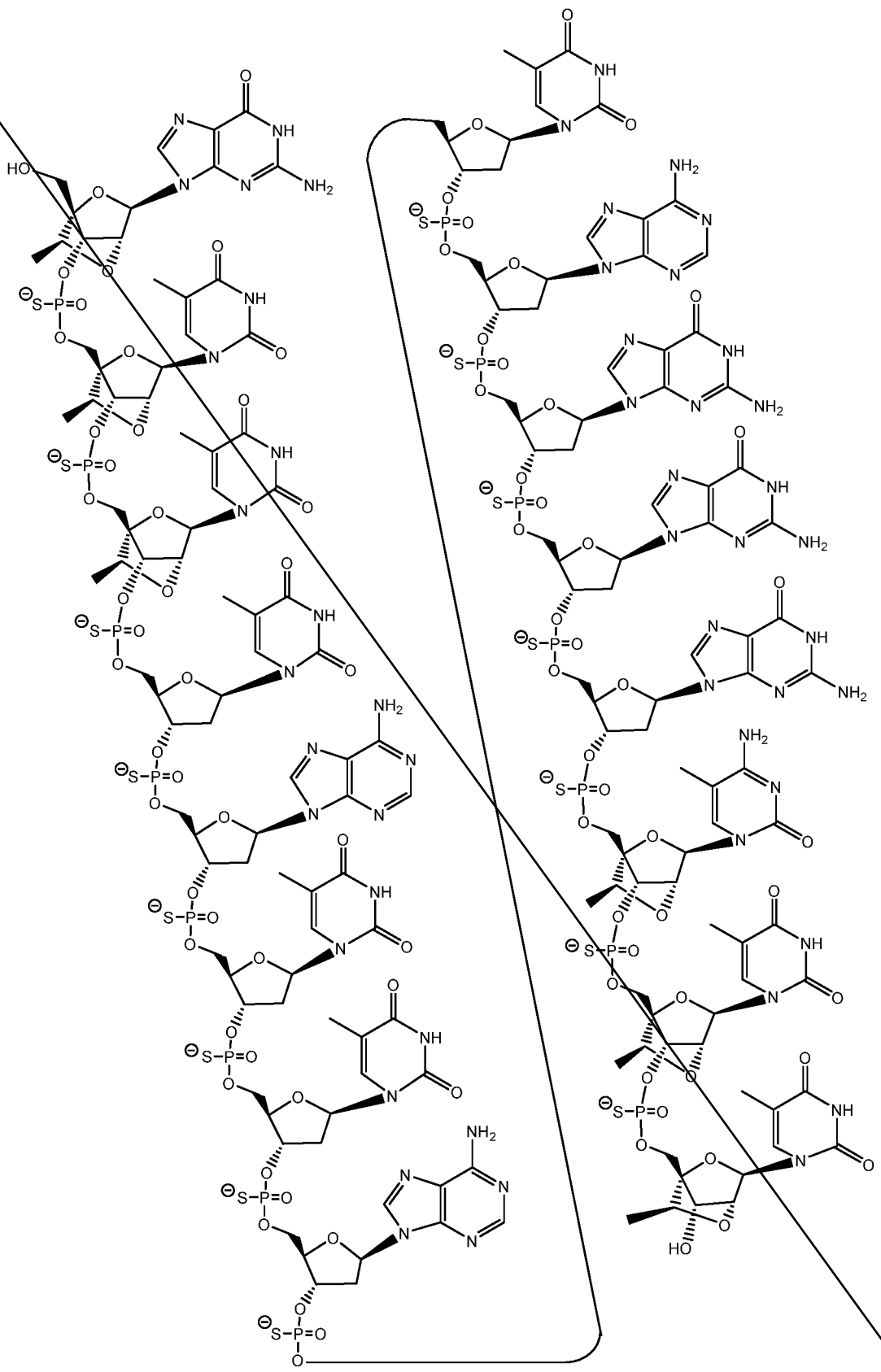
In certain embodiments, a compound comprises or consists of the sodium salt of compound 951799 having the following chemical structure:



[SEQ ID NO: 2879]



[SEQ ID NO: 2879] or a salt thereof.



[SEQ ID NO: 2879]

CLAIMS

1. A compound comprising a modified oligonucleotide consisting of 14 to 30 linked nucleosides and having a nucleobase sequence comprising at least 12 contiguous nucleobases of any one of the nucleobase sequences of SEQ ID NOs: 2879, 2123, 2189, 2160, 3056, 2453, or 2232.

2. The compound according to claim 1, wherein the modified oligonucleotide has a nucleobase sequence consisting of any one of SEQ ID NOs: 2879, 2123, 2189, 2160, 3056, 2453, or 2232.

3. The compound according to claim 1 or claim 2, wherein the modified oligonucleotide comprises:

a gap segment consisting of 8-12 linked 2'-deoxynucleosides, preferably 10 linked 2'-deoxynucleosides;

a 5' wing segment consisting of 1-7 linked nucleosides, preferably 3 linked nucleosides; and

a 3' wing segment consisting of 1-7 linked nucleosides, preferably 3 linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein the terminal nucleoside of each wing segment comprises a modified sugar.

4. The compound according to any one of claims 1 to 3, wherein the modified oligonucleotide comprises at least one modified internucleoside linkage, preferably a phosphorothioate internucleoside linkage.

5. The compound according to any one of claims 1 to 4, wherein the modified oligonucleotide comprises at least one bicyclic sugar, preferably selected from the group consisting of LNA, ENA, and cEt.

6. The compound according to any one of claims 1 to 5, wherein the modified oligonucleotide comprises at least one 5 -methylcytosine.

7. The compound according to any one of claims 1 to 6, wherein the modified oligonucleotide is single-stranded.

8. The compound according to any one of claims 1 to 6, wherein the compound is a double-stranded compound.

9. The compound according to any one of claims 1 to 8, wherein the modified oligonucleotide consists of 16 to 20 linked nucleosides.

10. The compound according to any one of claims 1 to 9 comprising a conjugate group, preferably wherein the compound consists of the modified oligonucleotide and the conjugate group.

11. A modified oligonucleotide according to the following formula: Gks Tks Tks Tds Ads Tds Tds Ads Tds Ads Gds Gds Gds mCks Tks Tk; wherein,

A = an adenine,

mC = a 5-methylcytosine

G = a guanine,

T = a thymine,

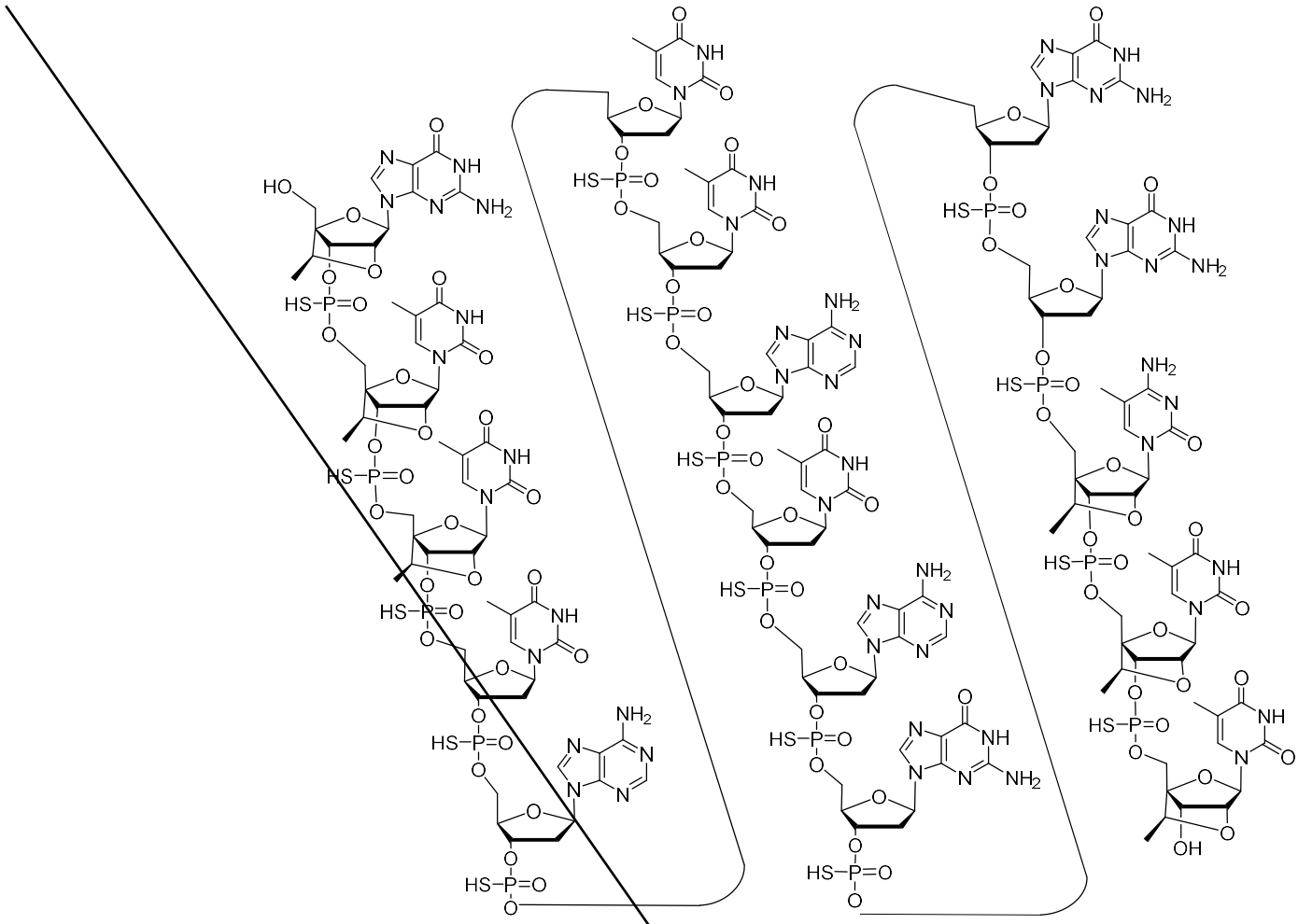
k = a cEt sugar moiety,

d = a 2'-deoxyribosyl sugar moiety, and

s = a phosphorothioate internucleoside linkage.

12. A compound comprising the modified oligonucleotide of claim 11, wherein the modified oligonucleotide is covalently linked to a conjugate group.

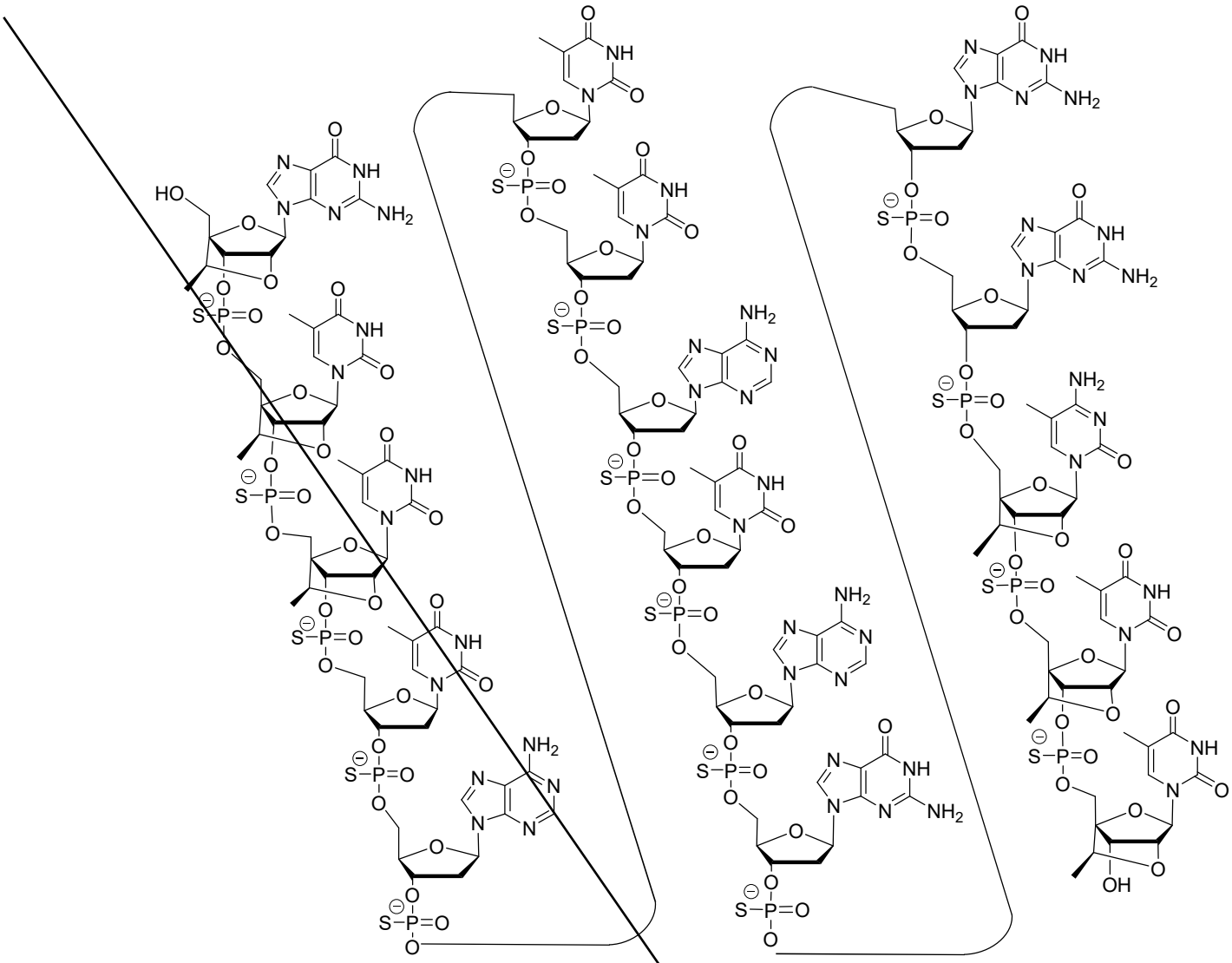
13. A modified oligonucleotide according to the following chemical structure:



(SEQ ID NO: 2879), or a salt thereof.

14. The modified oligonucleotide according to claim 13, which is the sodium salt or the potassium salt.

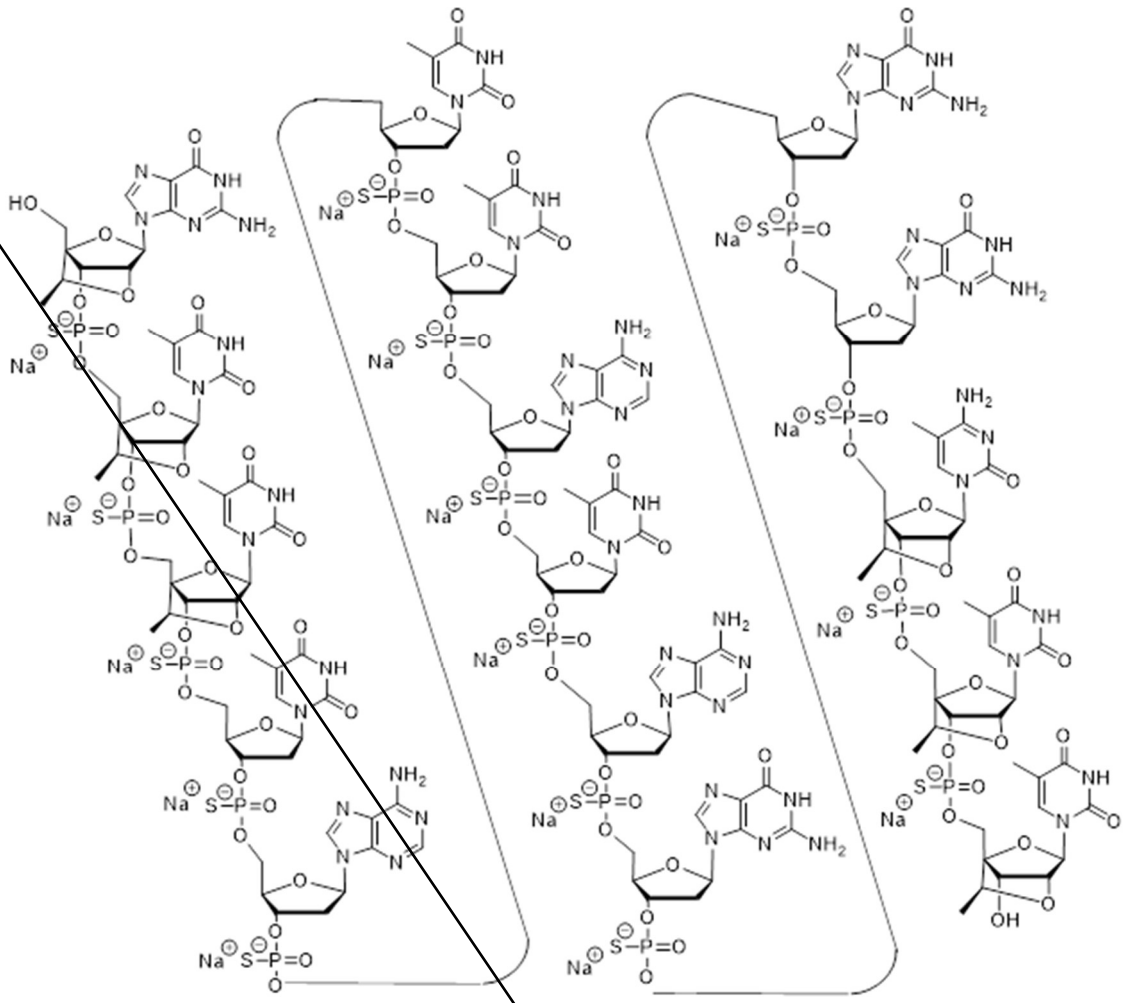
15. A modified oligonucleotide, wherein the anion form of the modified oligonucleotide has the following chemical structure:



(SEQ ID NO : 2879).

16. The modified oligonucleotide according to claim 15, wherein the modified oligonucleotide is a salt, optionally wherein the cation of the salt is sodium or potassium.

17. A modified oligonucleotide according to the following chemical structure:



(SEQ ID NO: 2879).

18. A compound consisting of a pharmaceutically acceptable salt form of any one of the compounds according to any one of claims 1 to 10 or 12, preferably wherein the pharmaceutically acceptable salt is a sodium salt or a potassium salt.

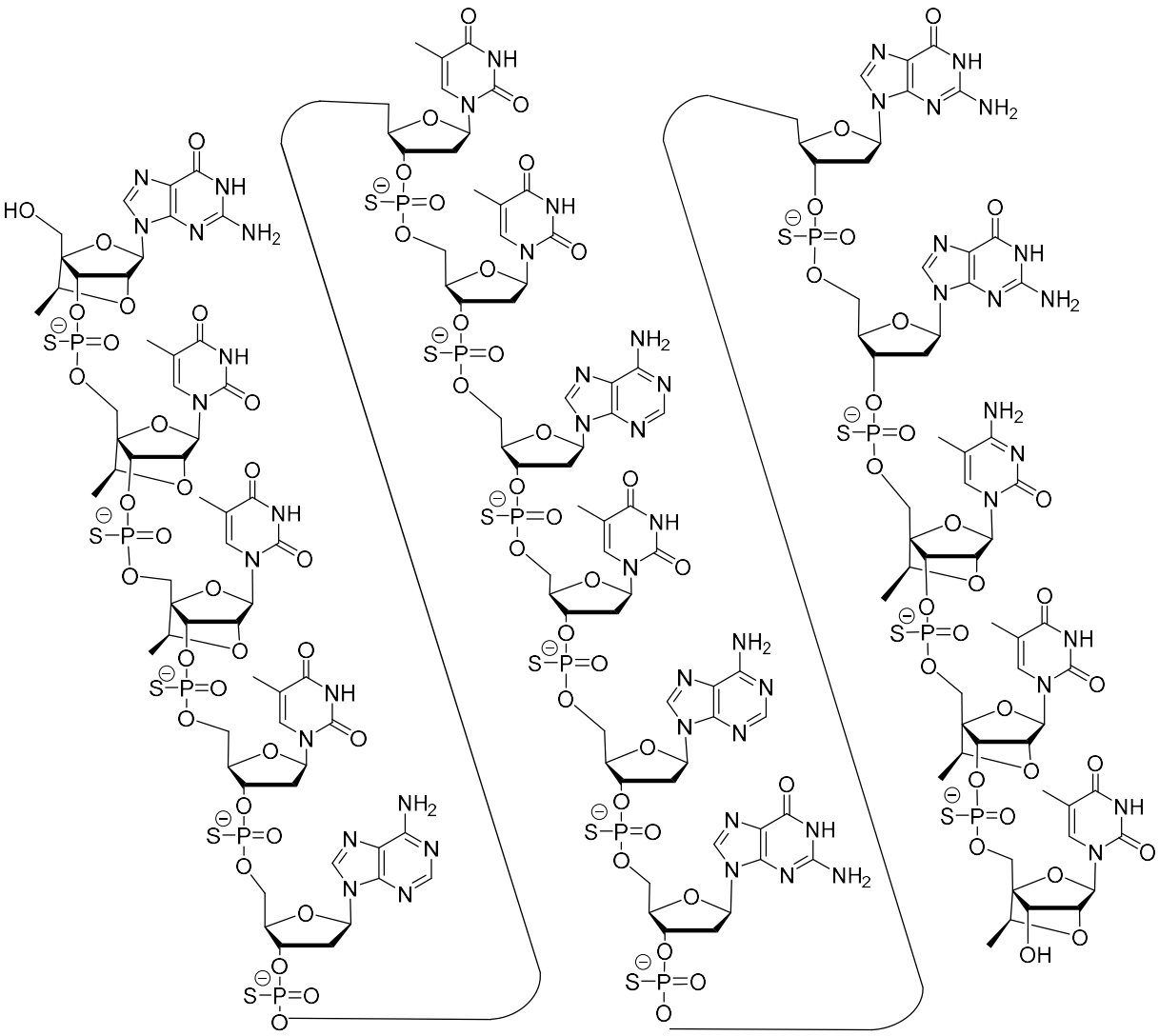
19. A chirally enriched population of the compounds according to any one of claims 1 to 10, 12 or 18, or of the modified oligonucleotides according to any one of claims 11, or 13 to 17, wherein the population is enriched for modified oligonucleotides comprising at least one particular phosphorothioate internucleoside linkage having a particular stereochemical configuration.

20. A pharmaceutical composition comprising the compound according to any one of claims 1 to 10, 12 or 18, the modified oligonucleotide according to any one of claims 11 or 13 to 17, or the population according to claim 19 and at least one pharmaceutically acceptable diluent or carrier, optionally wherein the pharmaceutically acceptable diluent is phosphate buffered saline, and optionally

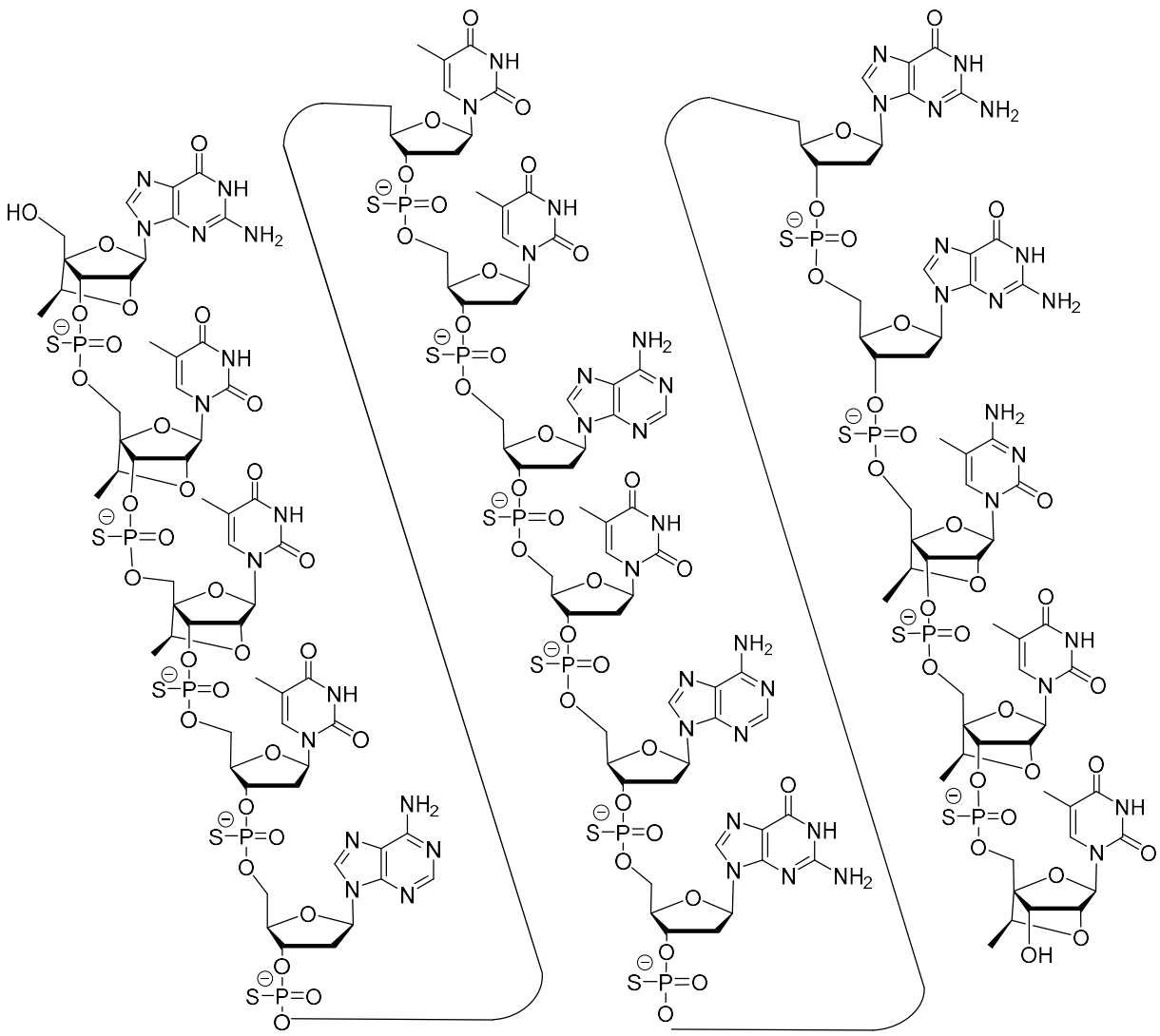
wherein the pharmaceutical composition consists essentially of the modified oligonucleotide(s) and phosphate buffered saline.

21. Use of the compound according to any one of claims 1 to 10, 12 or 18, the modified oligonucleotide according to any one of claims 11 or 13 to 17, the population according to claim 19 or the pharmaceutical composition according to claim 20 in the preparation of a medicament for treating, preventing, or ameliorating a disease associated with DNM2 in an individual, optionally wherein the disease is centronuclear myopathy, Duchenne Muscular Dystrophy, Charcot-Marie Tooth disease, X-linked myotubular myopathy, autosomal recessive centronuclear myopathy, or autosomal dominant centronuclear myopathy, and optionally wherein the disease is associated with a mutation in at least one gene selected from among MTM1, BIN1, and DNM2.

22. Use of the compound according to any one of claims 1 to 10, 12 or 18, the modified oligonucleotide according to any one of claims 11 or 13 to 17, the population according to claim 19 or the pharmaceutical composition according to claim 20 in the preparation of a medicament for reducing DNM2 RNA in a cell.

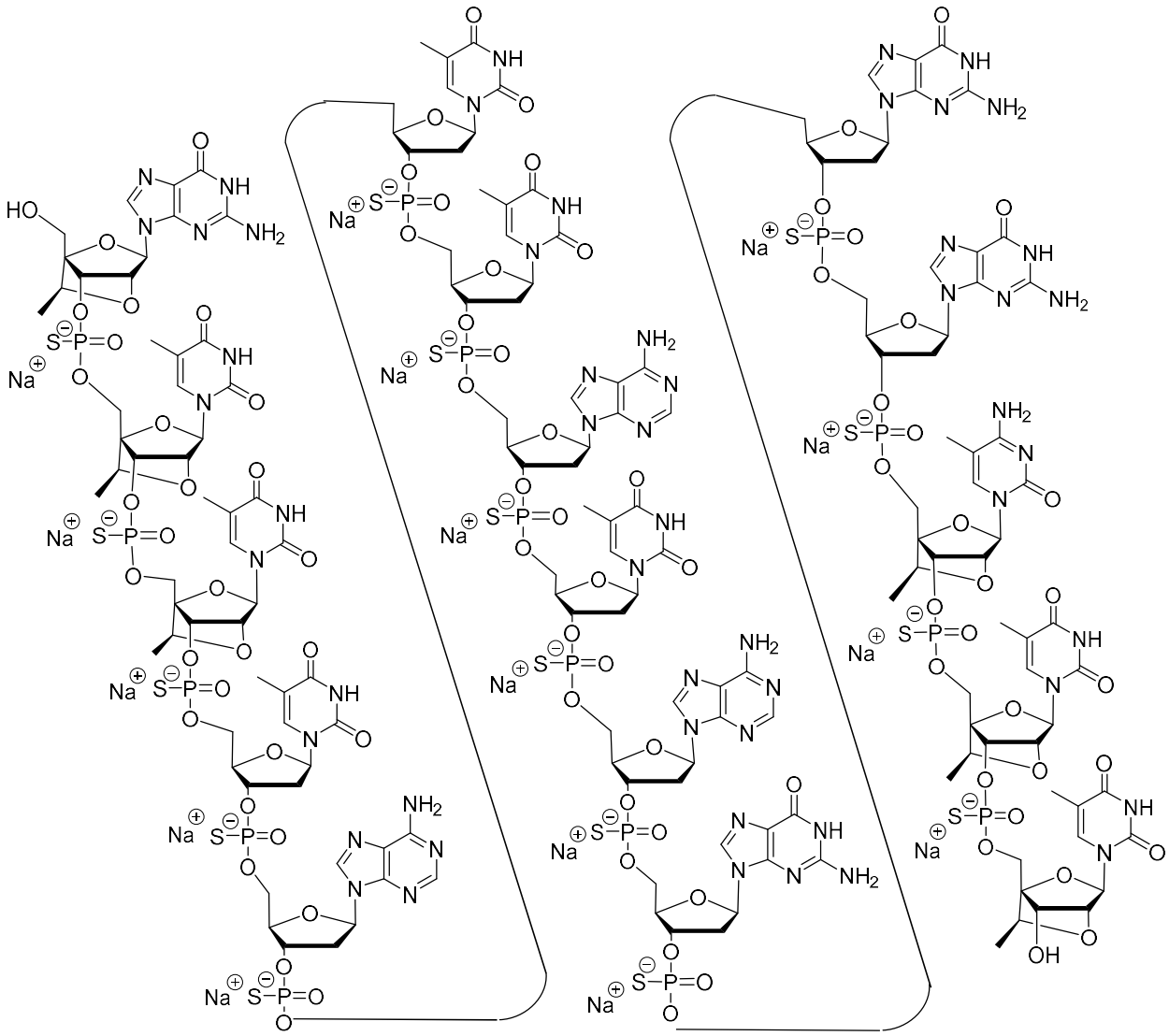


[SEQ ID NO: 2879] or a salt thereof.

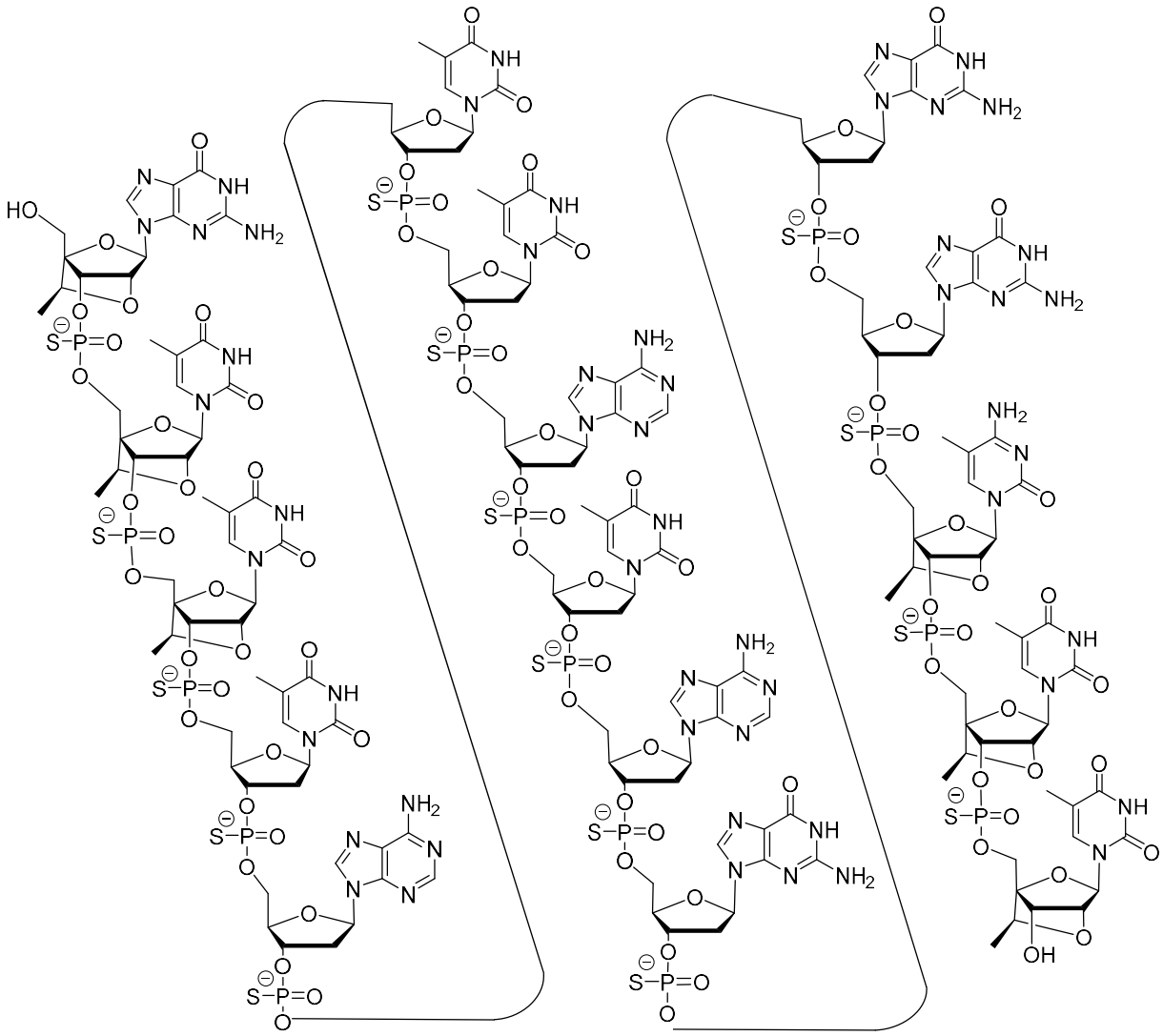


[SEQ ID NO: 2879]

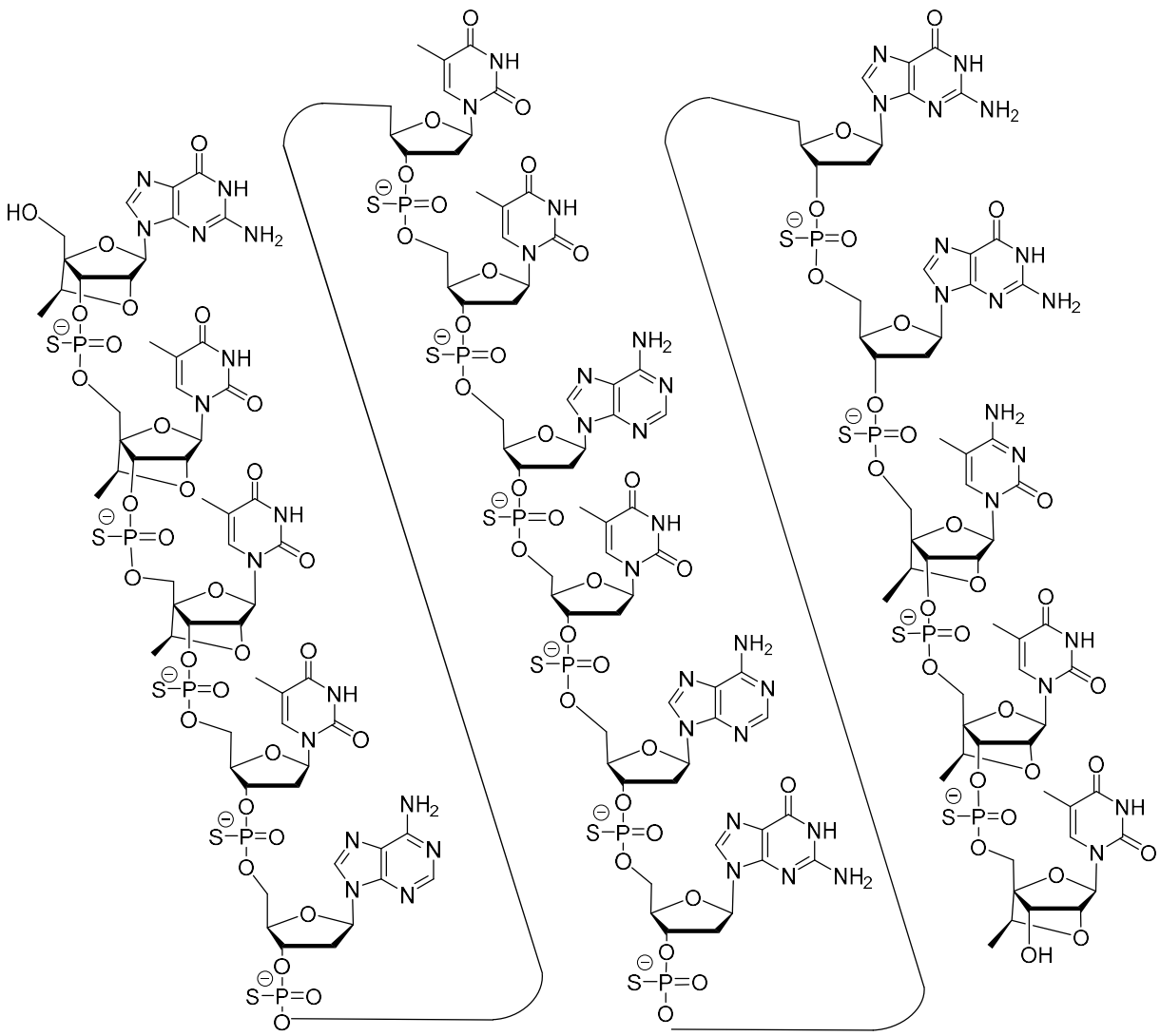
In certain embodiments, a compound comprises or consists of the sodium salt of compound 951799 having the following chemical structure:



[SEQ ID NO: 2879]



[SEQ ID NO: 2879] or a salt thereof.



[SEQ ID NO: 2879]

CLAIMS

1. A compound comprising a modified oligonucleotide consisting of 14 to 30 linked nucleosides and having a nucleobase sequence consisting of any one of SEQ ID NOs: 2879, 2123, 2189, 2160, 3056, 2453, or 2232.

2. The compound according to claim **1**, wherein the modified oligonucleotide comprises:

a gap segment consisting of 8-12 linked 2'-deoxynucleosides;

a 5' wing segment consisting of 1-7 linked nucleosides; and

a 3' wing segment consisting of 1-7 linked nucleosides;

wherein the gap segment is positioned between the 5' wing segment and the 3' wing segment and wherein the terminal nucleoside of each wing segment comprises a modified sugar.

3. The compound according to claim **2**, wherein the gap segment consists of 10 linked 2'-deoxynucleosides.

4. The compound according to claim **2** or **3**, wherein the 5' wing segment consists of 3 linked nucleosides.

5. The compound according to any one of claims **2** to **4**, wherein the 3' wing segment consists of 3 linked nucleosides.

6. The compound according to any one of claims **1** to **5**, wherein the modified oligonucleotide comprises at least one modified internucleoside linkage.

7. The compound according to claim **6**, wherein the at least one modified internucleoside linkage is a phosphorothioate internucleoside linkage.

8. The compound according to any one of claims **1** to **7**, wherein the modified oligonucleotide comprises at least one bicyclic sugar.

9. The compound according to claim **8**, wherein the at least one bicyclic sugar is selected from the group consisting of LNA, ENA, and cEt.

10. The compound according to any one of claims **1** to **9**, wherein the modified oligonucleotide comprises at least one 5 -methylcytosine.

11. The compound according to any one of claims **1** to **10**, wherein the modified oligonucleotide is single-stranded.

12. The compound according to any one of claims **1** to **11**, wherein the compound is a double-stranded compound.

13. The compound according to any one of claims **1** to **12**, wherein the modified oligonucleotide consists of 16 to 20 linked nucleosides.

14. The compound according to any one of claims **1** to **13** comprising a conjugate group.

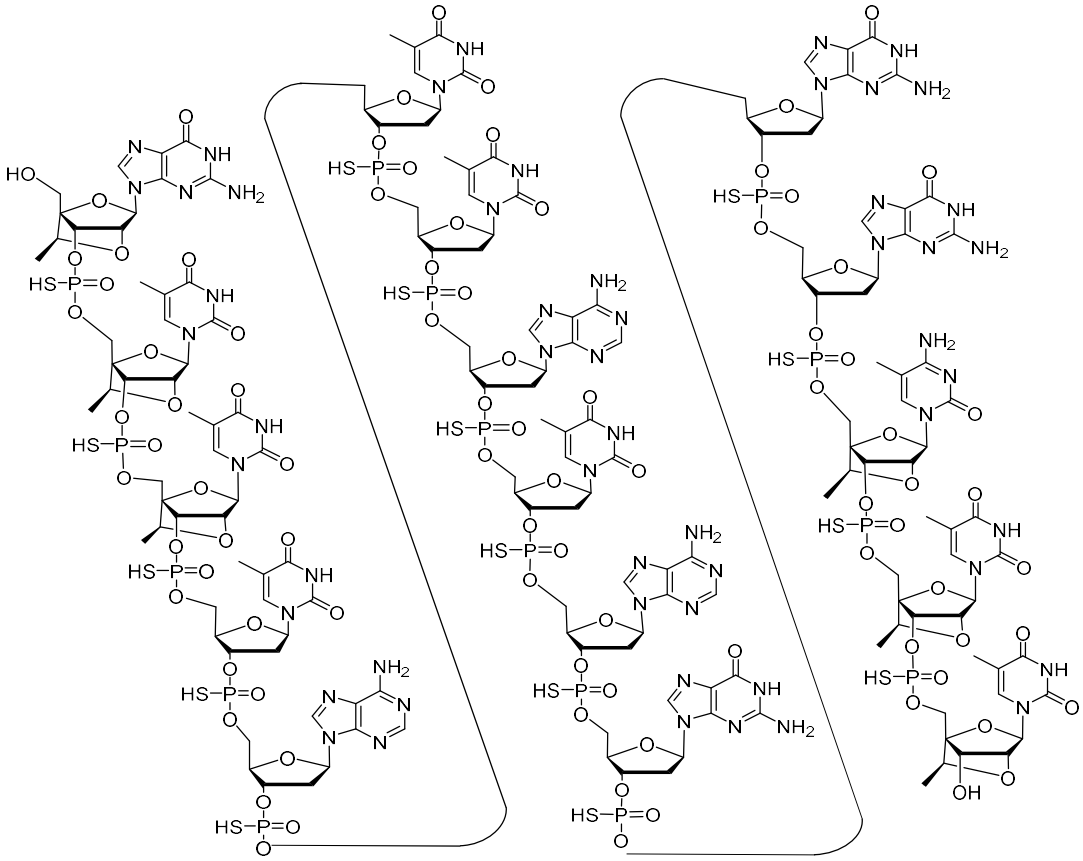
15. The compound according to claim **14,** wherein the compound consists of the modified oligonucleotide and the conjugate group.

16. A modified oligonucleotide according to the following formula: Gks Tks Tks Tds Ads Tds Tds Ads Tds Ads Gds Gds Gds mCks Tks Tk; wherein,

A = an adenine,
mC = a 5-methylcytosine
G = a guanine,
T = a thymine,
k = a cEt sugar moiety,
d = a 2'-deoxyribosyl sugar moiety, and
s = a phosphorothioate internucleoside linkage.

17. A compound comprising the modified oligonucleotide of claim **16**, wherein the modified oligonucleotide is covalently linked to a conjugate group.

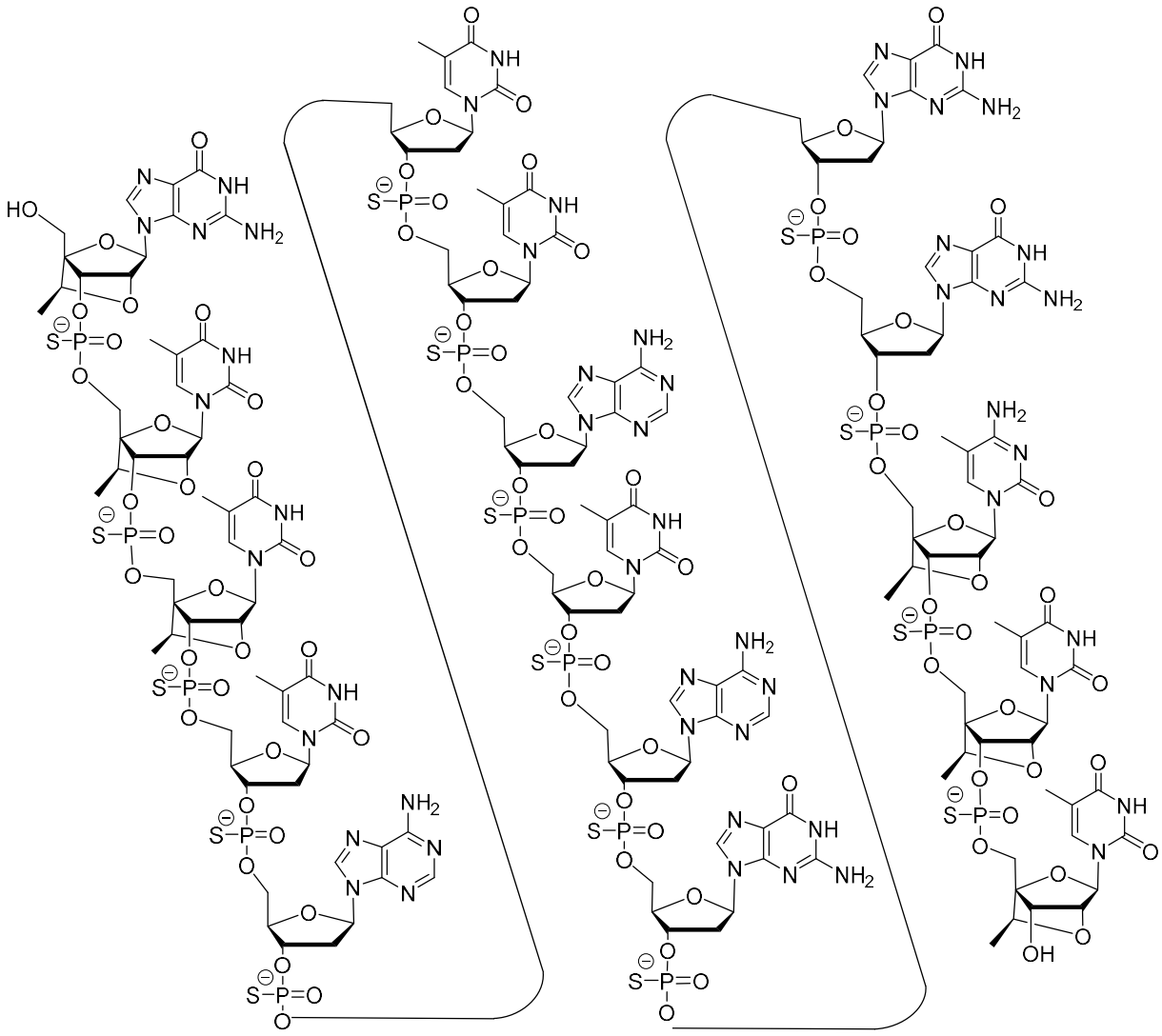
18. A modified oligonucleotide according to the following chemical structure:



(SEQ ID NO: 2879), or a salt thereof.

19. The modified oligonucleotide according to claim **18**, which is the sodium salt or the potassium salt.

20. A modified oligonucleotide, wherein the anion form of the modified oligonucleotide has the following chemical structure:

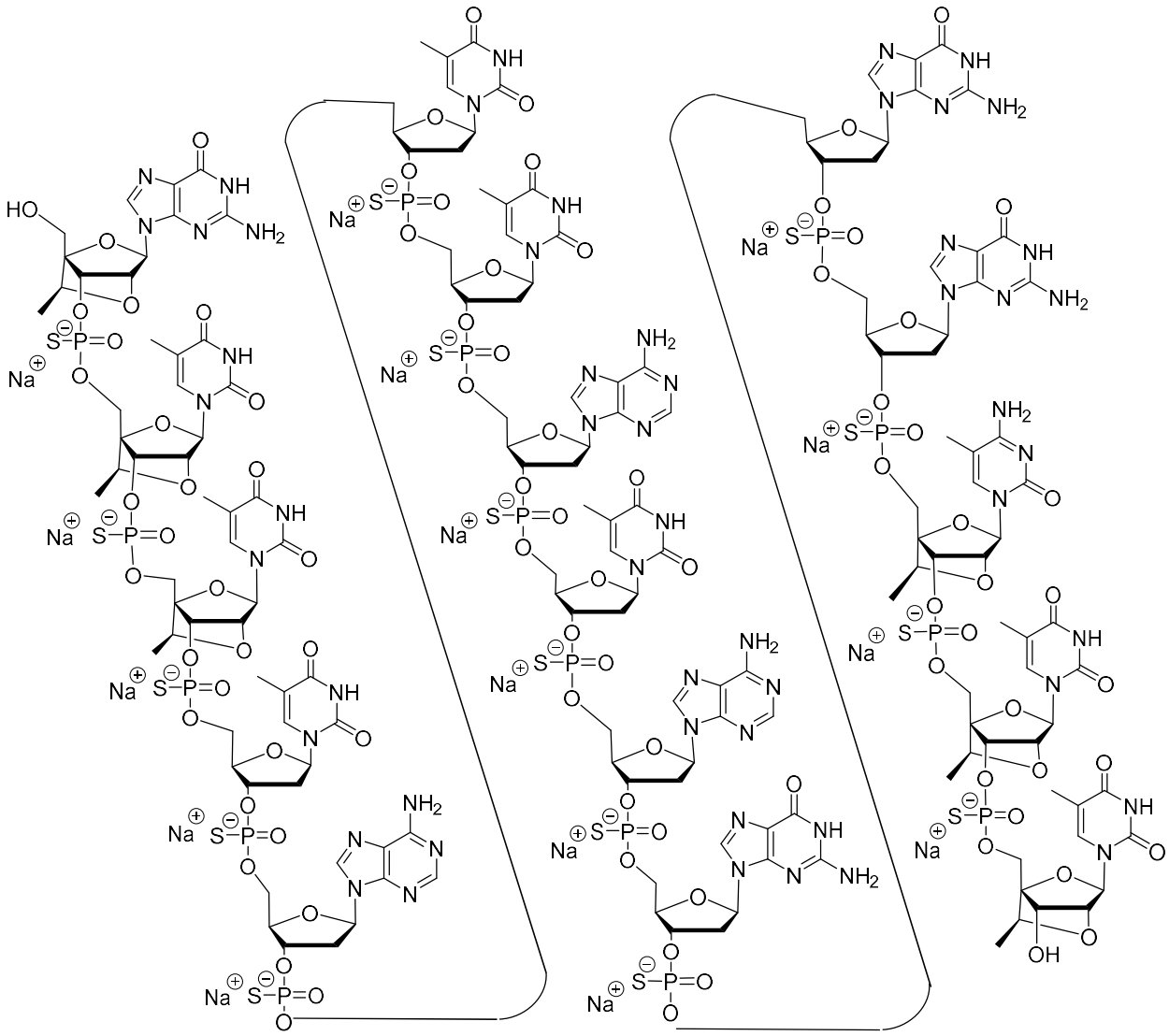


(SEQ ID NO : 2879).

21. The modified oligonucleotide according to claim **20**, wherein the modified oligonucleotide is a salt.

22. The modified oligonucleotide according to claim **21**, wherein the cation of the salt is sodium or potassium.

23. A modified oligonucleotide according to the following chemical structure:



(SEQ ID NO: 2879).

24. A compound consisting of a pharmaceutically acceptable salt form of any one of the compounds according to any one of claims **1** to **15** and **17**.

25. The compound according to claim **24**, wherein the pharmaceutically acceptable salt is a sodium salt or a potassium salt.

26. A chirally enriched population of the compounds according to any one of claims **1** to **15, 17** or **24**, or of the modified oligonucleotides according to any one of claims **16,** and **18** to **23**, wherein the population is enriched for modified oligonucleotides comprising at least one particular phosphorothioate internucleoside linkage having a particular stereochemical configuration.

27. A pharmaceutical composition comprising

the compound according to any one of claims **1** to **15, 17** or **24**,

the modified oligonucleotide according to any one of claims **16** or **18** to **23,** or

the population according to claim **26,**

and at least one pharmaceutically acceptable diluent or carrier.

28. The pharmaceutical composition according to claim **27**, wherein the pharmaceutically acceptable diluent is phosphate buffered saline.

29. The pharmaceutical composition according to claim **27** or **28,** wherein the pharmaceutical composition consists essentially of the modified oligonucleotide(s) and phosphate buffered saline.

30. Use of the compound according to any one of claims **1** to **15, 17** or **24**, the modified oligonucleotide according to any one of claims **16** or **18** to **23**, the population according to claim **26** or the pharmaceutical composition according to any one of claim **27** to **29** in the preparation of a medicament for treating, preventing, or ameliorating a disease associated with DNM2 in an individual.

31. The use according to claim **30**, wherein the disease is centronuclear myopathy, Duchenne Muscular Dystrophy, Charcot-Marie Tooth disease, X-linked myotubular myopathy, autosomal recessive centronuclear myopathy, or autosomal dominant centronuclear myopathy.

32. The use according to claim **30**, wherein the disease is associated with a mutation in at least one gene selected from among MTM1, BIN1, and DNM2.

33. Use of the compound according to any one of claims **1** to **15, 17** or **24**, the modified oligonucleotide according to any one of claims **16** or **18** to **23**, the population according to claim **26** or the pharmaceutical composition according to any one of claims **27** to **29** in the preparation of a medicament for treating, preventing or ameliorating a disease associated with DNM2 by reducing DNM2 RNA in a cell.