WHAT IS CLAIMED IS:

1. A pharmaceutical composition comprising an antiviral ON chelate complex, consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, and at least one antiviral polypeptide.

2. The pharmaceutical composition of claim 1, wherein the polypeptide is further pegylated.

3. The pharmaceutical composition of claim 1 or 2, wherein said divalent metal cation is calcium.

4. The pharmaceutical composition of claim 1 or 2, wherein said divalent metal cation is magnesium.

5. The pharmaceutical composition of claim 1 or 2, wherein said divalent metal cation is iron (2+), manganese, copper or zinc.

6. The pharmaceutical composition of any one of claims 1-5, wherein said composition comprises two or more different divalent metal cations.

7. The pharmaceutical composition of claim 1 or 2, wherein said divalent cation is comprised of calcium and magnesium.

8. The pharmaceutical composition of any one of claims 1-7, wherein said ON chelate complex comprises at least one double stranded ON.

9. The pharmaceutical composition of any one of claims 1-8, wherein said ON chelate complex comprises at least one ON with at least one phosphorothioate linkage.

10. The pharmaceutical composition of any one of claims 1-9, wherein said ON chelate complex comprises at least one fully phosphorothioated ON.

11. The pharmaceutical composition of any one of claims 1-10, wherein said ON chelate complex comprises at least one ON with one 2’ modified ribose.

12. The pharmaceutical composition of any one of claims 1-11, wherein said ON chelate complex comprises at least one ON which has each ribose 2' O-methylated.

13. The pharmaceutical composition of any one of claims 1-12, wherein said ON chelate complex comprises at least one ON comprising at least one 5'methylcytosine.

14. The pharmaceutical composition of any one of claims 1-13, wherein said ON chelate complex comprises at least one ON in which each cytosine is a 5'methylcytosine.

15. The pharmaceutical composition of any one of claims 1-14, wherein said ON chelate complex comprises at least one ON in which every ribose is 2' O-methylated and in which each cytosine is a 5'methylcytosine.

16. The pharmaceutical composition of any one of claims 1-7, wherein said ON chelate complex comprises an oligonucleotide selected from SEQ ID NOs: 1-6 and 10-18.

17. The pharmaceutical composition of claim 1 or 2, wherein said ON chelate complex comprises an oligonucleotide selected from SEQ ID NOs: 7-9.

18. The pharmaceutical composition of any one of claims 1-17, wherein the polypeptide is at least one of:

Thymosin α1;
Any α-interferon or pegylated α-interferon;
Any β-interferon or pegylated β-interferon;
Any γ-interferon or pegylated γ-interferon;
Any λ-interferon or pegylated λ-interferon;
Interferon α-2a or α-2b or α-N3;
Interferon β-1a or β-1b;
Interferon γ-1b;
Interferon λ1 or λ2 or λ3;
Pegylated interferon α-2a or α-2b or $\lambda 1$ or $\lambda 2$ or λ3;
Myrcludex B; and
Thymic protein A.

19. The pharmaceutical composition of any one of claims 1-18, formulated for subcutaneous administration.

20. The pharmaceutical composition of any one of claims 1-18, formulated for intravenous infusion.

21. The pharmaceutical composition of any one of claims 1-18, formulated for at least one of the following routes of administration: aerosol inhalation, intraocular, oral ingestion, enteric, intramuscular injection, intraperitoneal injection, intrathecal injection, intrathecal infusion, intratracheal, intravenous injection and topically.

22. The pharmaceutical composition of any one of claims 1-21, wherein said ON chelate complex comprises at least one ON consisting of SEQ ID NO: 2.

23. The pharmaceutical composition of any one of claims 1-21, wherein said ON chelate complex comprises at least one ON consisting of SEQ ID NO: 11.

24. The pharmaceutical composition of any one of claims 1-21, wherein said ON chelate complex comprises at least one ON consisting of SEQ ID NO: 18.

25. The pharmaceutical composition of any one of claims 1-24, further comprising one or more of the following: entecavir, tenofovir disoproxil fumarate, telbuvidine, adefovir dipivoxil, lamivudine, ribavirin, telaprevir, boceprevir, GS-7977, tegobuvir, zanamivir, oseltamivir, ganciclovir, foscarnet, acyclovir, zidovudine, abacavir, lopinavir, ritonavir or efavirenz.

26. The pharmaceutical composition of any one of claims 1-25, further comprising a carrier.

27. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 2, and pegylated interferon α–2b.

28. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 18, and pegylated interferon α–2b.

29. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 11, and pegylated interferon α–2b.

30. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 2, and thymosin α1.

31. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON isSEQ ID NO: 18, and thymosin α1.

32. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 11, and thymosin α1.

33. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 2, and interferon α-2b.

34. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 18, and interferon α-2b.

35. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 11, and interferon α-2b.

36. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 2, and pegylated thymosin α1.

37. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 18, and pegylated thymosin α1.

38. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 11, and pegylated thymosin α1.

39. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 2, and pegylated interferon α–2a.

40. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 18, and pegylated interferon α–2a.

41. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 11, and pegylated interferon α–2a.

42. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 2, and interferon λ1.

43. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 18, and interferon λ1.

44. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 11, and interferon λ1.

45. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 2, and pegylated interferon λ1.

46. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 18, and pegylated interferon λ1.

47. A pharmaceutical composition comprising an ON chelate complex consisting of two or more antiviral ONs linked intermolecularly by a divalent cation, wherein at least one ON is SEQ ID NO: 11, and pegylated interferon λ1.

48. A method for the preparation of the pharmaceutical composition of any one of claims 1-47, the method comprising:

a. dissolving at least one oligonucleotide (ON) sodium salt in a pharmaceutically acceptable aqueous excipient;
b. gradually adding a pharmaceutically acceptable divalent metal salt solution to the dissolved ON such that the ON chelate complex remains soluble;
c. dissolving one or more antiviral polypetides in a compatible, pharmaceutically acceptable aqueous excipient; and
d. gradually mixing the antiviral polypeptide solution with the ON chelate complex solution such that the solubility of said ON chelate complex and antiviral polypeptide is preserved.

49. A method for the preparation of the pharmaceutical composition of any one of claims 1-47, the method comprising:

a. dissolving at least one oligonucleotide (ON) sodium salt in a pharmaceutically acceptable aqueous excipient;
b. gradually adding at least one of a pharmaceutically acceptable calcium and / or magnesium salt solution to the dissolved ON such that the ON chelate complex remains soluble;
c. dissolving one or more antiviral polypetides in a compatible, pharmaceutically acceptable aqueous excipient; and
d. gradually mixing the antiviral polypeptide solution with the ON chelate complex solution such that the solubility of said ON chelate complex and antiviral polypeptide is preserved.

50. The method of claims 48 or 49, wherein the ON chelate complex solution and the polypeptide solution are combined just prior to the administration of the pharmaceutical composition.

51. The method of claims 48 or 49, wherein the ratio of divalent metal salt added to the dissolved ON is 0.1-50 mg per 100mg of oligonucleotide.

52. The method of claims 48 or 49, wherein the final ON concentration is 0.1-200mg/ml.

53. The method of any one of claims 48-52, wherein the divalent metal salt is at least one of a chloride salt, a gluconate salt, a citrate salt, a lactate salt, a malate salt, an aspartate salt, a fumarate salt, an ascorbate salt, a benzoate salt, an erythorbate salt, a propionate salt, a sulfate salt or a bicarbonate salt.

54. The method of any one of claims 48-52, wherein the divalent metal salt solution contains at least one of calcium, magnesium, iron (2+), manganese, copper or zinc.

55. The method of any one of claims 48-54, wherein the ON used is selected from SEQ ID NO: 1-18.

56. The method of any one of claims 48-55, wherein the one or more polypeptides are selected from the group consisting of:

Thymosin α1;
Any α-interferon or pegylated α-interferon;
Any β-interferon or pegylated β-interferon;
Any γ-interferon or pegylated γ-interferon;
Any λ-interferon or pegylated λ-interferon;
Interferon α-2a or α-2b or α-N3;
Interferon β-1a or β-1b;
Interferon γ-1b;
Interferon λ1 or λ2 or λ3;
Pegylated interferon α-2a or α-2b or λ1 or λ2 or λ3;
Myrcludex B; and
Thymic protein A.

57. A kit comprising the pharmaceutical compositions of any one of claims 1-47.

58. The kit of claim 57, wherein the ON chelate complex and the at least one polypeptide are formulated separately.

59. The kit of claim 58, wherein the ON chelate complex and the at least one polypeptide are formulated for a co-administration by the same or different routes of administration.