What is claimed is:

1. Use of at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and a pharmaceutically acceptable salts thereof, in the manufacture of a medicament for treating immune thrombocytopenia (ITP) in a human patient in need thereof, wherein the human patient has refractory ITP and at least one characteristic chosen from:

a platelet count of less than 30,000/μL for at least 2 consecutive platelet counts prior to the start of the treatment period;

a history of taking at least 4 prior ITP therapies prior to the start of the treatment period; and

splenectomy prior to the start of the treatment period.

2. Use of at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and a pharmaceutically acceptable salts thereof, in the manufacture of a medicament for increasing a platelet count in a human patient with immune thrombocytopenia (ITP), wherein the human patient has refractory ITP and at least one characteristic chosen from:

a platelet count of less than 30,000/μL for at least 2 consecutive platelet counts prior to the start of the treatment period;

a history of taking at least 4 prior ITP therapies prior to the start of the treatment period; and

splenectomy prior to the start of the treatment period.

3. The use according to claim 2, wherein increasing the platelet count comprises increasing a platelet count by at least 20,000/μL relative to a pre-administration baseline platelet count.

4. The use according to claim 2 or 3, wherein increasing the platelet count comprises increasing at least 50% of platelet counts measured during the treatment period by at least 20,000/μL relative to a pre-administration baseline platelet count.

5. The use according to any of claims 2-4, wherein increasing the platelet count comprises increasing at least 2 consecutive platelet counts relative to a pre-administration baseline platelet count.

6. The use according to any of claims 3-5, wherein the pre-administration baseline platelet count is an average of the human patient's two most recent platelet counts prior to the start of the treatment period and the human patient's platelet count on the first day of the treatment period.

7. Use of least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and a pharmaceutically acceptable salts thereof, in the manufacture of a medicament for achieving a platelet count of at least 50,000/μL in a human patient with immune thrombocytopenia (ITP), wherein the human patient has refractory ITP and at least one characteristic chosen from:

a platelet count of less than 30,000/μL for at least 2 consecutive platelet count prior to the start of the treatment period;

a history of taking at least 4 prior ITP therapies prior to the start of the treatment period; and

splenectomy prior to the start of the treatment period.

8. The use according to claim 7, wherein achieving a platelet count comprises achieving at least 2 platelet counts of at least 50,000/μL.

9. The use according to claim 7 or 8, wherein achieving a platelet count comprises achieving at least 2 consecutive platelet counts of at least 50,000/μL.

10. The use according to any of claims 7-9, wherein achieving a platelet count comprises achieving a platelet count of at least 50,000/μL in at least 50% of platelet counts measured during the treatment period.

11. The use according to any of claims 7-10, wherein achieving a platelet count comprises achieving a platelet count of at least 50,000/μL in at least 4 of the final 8 platelet counts measured during the treatment period.

12. The use according to any of claims 7-11, wherein achieving a platelet count comprises achieving a platelet count of at least 50,000/μL in at least 4 of the final 6 platelet counts measured during the treatment period.

13. Use of at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and a pharmaceutically acceptable salts thereof, in the manufacture of a medicament for achieving at least one platelet count of at least 50,000/μL in a human patient with immune thrombocytopenia (ITP), wherein the at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof is to be administered to the human patient once a day or twice a day for a treatment period, wherein the human patient has been identified as having a platelet count of less than 30,000/μL for 2 or more consecutive platelet counts prior to the start of the treatment period, wherein 2 of the 2 or more platelet counts were measured no sooner than 7 days apart in the 15 days prior to the start of the treatment period, and wherein the human patient has at least one characteristic chosen from:

a history of taking at least 4 prior ITP therapies prior to the start of the treatment period; and

splenectomy prior to the start of the treatment period.

14. The use according to claim 13, wherein achieving a platelet count comprises achieving at least 2 platelet counts of at least 50,000/μL.

15. The use according to claim 13 or 14, wherein achieving a platelet count comprises achieving at least 2 consecutive platelet counts of at least 50,000/μL.

16. The use according to any of claims 13-15, wherein achieving a platelet count comprises achieving a platelet count of at least 50,000/μL in at least 50% of platelet counts measured during the treatment period.

17. The use according to any of claims 13-16, wherein achieving a platelet count comprises achieving a platelet count of at least 50,000/μL in at least 4 of the final 8 platelet counts measured during the treatment period.

18. The use according to any of claims 13-17, wherein achieving a platelet count comprises achieving a platelet count of at least 50,000/μL in at least 4 of the final 6 platelet counts measured during the treatment period.

19. The use according to any of claims 13-18, wherein achieving a platelet count comprises increasing at least 50% of platelet counts measured during the treatment period by at least 20,000/μL relative to a pre-administration baseline platelet count.

20. The use according to claim 19, wherein the pre-administration baseline platelet count is an average of the human patient's two most recent platelet counts prior to the start of the treatment period and the human patient's platelet count on the first day of the treatment period.

21. Use of at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and a pharmaceutically acceptable salts thereof, in the manufacture of a medicament for achieving a platelet count of at least 30,000/μL in a human patient with immune thrombocytopenia (ITP), wherein the at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof is to be administered to the human patient once a day or twice a day for a treatment period, wherein the human patient has been identified as having a platelet count of less than 30,000/μL for 2 or more consecutive platelet counts prior to the start of the treatment period, wherein 2 of the 2 or more platelet counts were measured no sooner than 7 days apart in the 15 days prior to the start of the treatment period, and wherein the human patient has at least one characteristic chosen from:

a history of taking at least 4 prior ITP therapies prior to the start of the treatment period; and

splenectomy prior to the start of the treatment period.

22. The use according to claim 21, wherein achieving a platelet count comprises achieving a platelet count of at least 30,000/μL in at least 50% of platelet counts measured during the treatment period

23. The use according to claim 21 or 22, wherein achieving a platelet count comprises achieving a platelet count of at least 30,000/μL in at least 75% of platelet counts measured during the treatment period

24. The use according to any of claims 1-23, wherein consecutive platelet counts are measured at least 5 days apart.

25. The use according to any of claims 1-24, wherein the human patient has primary ITP.

26. The use according to any of claims 1-24, wherein the human patient has secondary ITP.

27. The use according to any of claims 1-24, wherein the human patient has chronic ITP.

28. The use according to any of claims 1-24, wherein the human patient has relapsing ITP.

29. The use according to any of claims 13-28, wherein the human patient has refractory ITP.

30. The use according to any of claims 1-29, wherein the human patient has no available and approved therapeutic options.

31. The use according to any of claims 1-12, wherein the human patient has a platelet count of less than 30,000/μL prior to the start of the treatment period.

32. The use according to any of claims 1-12, wherein the human patient has 2 platelet counts of less than 30,000/μL prior to the start of the treatment period.

33. The use according to any of claims 1-12, wherein the human patient has 2 platelet counts of less than 30,000/μL prior to the start of the treatment period, wherein the 2 counts are measured no sooner than 7 days apart in the 15 days prior to the start of the treatment period.

34. The use according to any of claims 1-33, wherein the at least 4 prior ITP therapies are chosen from corticosteroids, thrombopoietin receptor agonists, intravenous immunoglobulin, anti-D immunoglobulin, and rituximab.

35. The use according to any of claims 1-34, wherein the treatment period is at least 8 days.

36. The use according to any of claims 1-34, wherein the treatment period is at least 28 days.

37. The use according to any of claims 1-34, wherein the treatment period is at least 84 days.

38. The use according to any of claims 1-34, wherein the treatment period is at least 168 days.

39. The use according to any of claims 1-38, wherein 400 mg of the at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof is to be administered to the human patient once a day or twice a day.

40. The use according to any of claims 1-39, wherein 400 mg of the at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof is to be administered to the human patient once a day.

41. The use according to any of claims 1-39, wherein 400 mg of the at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof is to be administered to the human patient twice a day.

42. The use according to any of claims 1-38, wherein 300 mg of the at least one compound chosen from (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof is to be administered to the human patient twice a day.

43. The use according to any of claims 1-42, wherein the at least one compound is to be administered as a monotherapy.

44. The use according to any of claims 1-42, wherein the at least one compound is to be administered in combination with at least one concomitant ITP therapy.

45. The use according to claim 44, wherein the at least one concomitant ITP therapy is chosen from corticosteroids and thrombopoietin receptor agonists.

46. The use according to claim 44 or 45, wherein the at least one concomitant ITP therapy is chosen from corticosteroids, eltrombopag, and romiplostim.

47. The use according to any of claims 1-46, wherein the at least one compound comprises at least one compound chosen from the (E) isomer of (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof.

48. The use according to any of claims 1-46, wherein the at least one compound comprises at least one compound chosen from the (Z) isomer of (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-

[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile and the pharmaceutically acceptable salts thereof.

49. The use according to any of claims 1-46, wherein the at least one compound comprises a mixture of (E) and (Z) isomers of (R)-2-[3-[4-amino-3-(2-fluoro-4-phenoxy-phenyl)pyrazolo[3,4-d]pyrimidin-1-yl]piperidine-1-carbonyl]-4-methyl-4-[4-(oxetan-3-yl)piperazin-1-yl]pent-2-enenitrile or a pharmaceutically acceptable salt of the foregoing.

50. The use according to any of claims 1-49, wherein the at least one compound is to be orally administered to the human patient.

51. The use according to any of claims 1-50, wherein the at least one compound is to be administered to the human patient in the form of at least one tablet.

52. The use according to any of claims 1-51, wherein the at least one compound is to be administered with a glass of water.

53. The use according to any of claims 1-52, wherein the at least one compound is to be administered with food.

54. The use according to any of claims 1-52, wherein the at least one compound is to be administered without food.