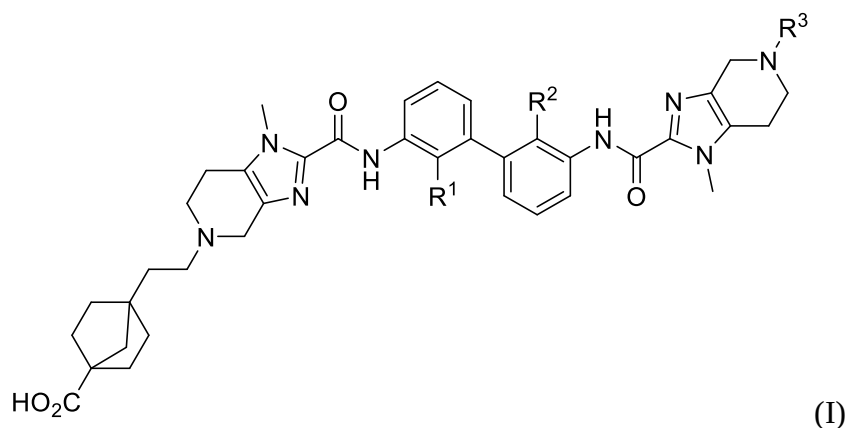


What is claimed is:

1. A compound of Formula I:



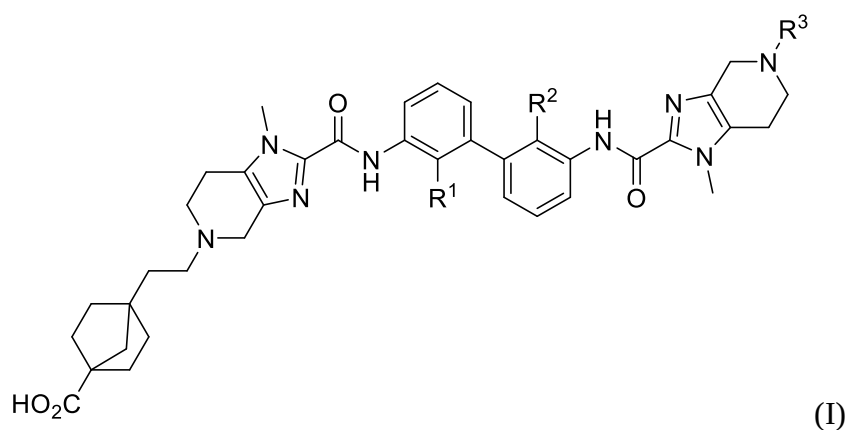
or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl, CN, F, Cl, or Br;

R² is methyl, CN, F, Cl, or Br; and

R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, 4- to 6-membered heterocycloalkyl or 4- to 6-membered heterocycloalkyl-C₁₋₂ alkyl-, wherein the 5- to 6-membered heteroaryl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, 4- to 6-membered heterocycloalkyl and 4- to 6-membered heterocycloalkyl-C₁₋₂ alkyl- each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, 4- to 6-membered heterocycloalkyl and 4- to 6-membered heterocycloalkyl-C₁₋₂ alkyl- of R³ are each optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, OH, CON(CH₃)₂, CH₃, F, Cl, Br, CN, ethyl, and propyl.

2. ~~A~~ The compound of claim 1 having Formula I:



or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl, CN, F, Cl, or Br;

R² is methyl, CN, F, Cl, or Br; and

R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, 4- to 6-membered heterocycloalkyl or 4- to 6-membered heterocycloalkyl-C₁₋₂ alkyl-, wherein the 5- to 6-membered heteroaryl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, 4- to 6-membered heterocycloalkyl and 4- to 6-membered heterocycloalkyl-C₁₋₂ alkyl- each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, 4- to 6-membered heterocycloalkyl and 4- to 6-membered heterocycloalkyl-C₁₋₂ alkyl- of R³ are each optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, and OH.

3. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is methyl, F, Cl, or Br.

4. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is methyl.

5. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is F, Cl, or Br.

6. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is Cl.

7. The compound of any one of claims 1-6, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R² is methyl.
8. The compound of any one of claims 1-6, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R² is CN.
9. The compound of any one of claims 1-6, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R² is F, Cl, or Br.
10. The compound of any one of claims 1-6, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R² is Cl.
11. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is Cl and R² is Cl.
12. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is Cl and R² is methyl.
13. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is methyl and R² is Cl.
14. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is Cl and R² is CN.
15. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R¹ is methyl and R² is methyl.
16. The compound of ~~any one of claims 1-15~~ claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, or 4- to 6-membered heterocycloalkyl, wherein the 5- to 6-membered heteroaryl-C₁₋₂ alkyl and 4- to 6-membered heterocycloalkyl each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, and 4- to 6-membered heterocycloalkyl of R³ are each optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, OH, CON(CH₃)₂, and CH₃.

~~1917.~~ The compound of ~~any one of claims 1-15~~claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₁₋₄ alkyl, optionally substituted with 1 or 2 substituents independently selected from COOH, OH, and CON(CH₃)₂.

~~2318.~~ The compound of ~~any one of claims 1-15~~claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₃₋₈ cycloalkyl, optionally substituted with 1 or 2 substituents independently selected from COOH, OH, and CH₃.

~~2719.~~ The compound of ~~any one of claims 1-15~~claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, 4-carboxyphenethyl, (4-carboxycyclohexyl)ethyl, or 4-carboxy-4-methylcyclohexyl.

~~3220.~~ The compound of ~~any one of claims 1-15~~claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is H, methyl, ethyl, isopropyl, 1,3-dihydroxypropan-2-yl, 2,3-dihydroxypropyl, 2-hydroxypropyl, 2-hydroxyethyl, 3-hydroxypropyl, carboxymethyl, 3-carboxypropyl, 2-carboxy-2-methylpropyl, cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, 4-carboxyphenethyl, (1H-pyrazol-3-yl)methyl, tetrahydro-2H-pyran-4-yl, 1-carbamoylpiperidin-4-yl, 1-sulfamoylpiperidin-4-yl, (3-carboxy-1H-pyrazol-5-yl)methyl, 4-carboxybutyl, (4-carboxycyclohexyl)ethyl, or 4-carboxy-4-methylcyclohexyl.

~~1721.~~ The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, or 4- to 6-membered heterocycloalkyl, wherein the 5- to 6-membered heteroaryl-C₁₋₂ alkyl and 4- to 6-membered heterocycloalkyl each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, and 4- to 6-membered heterocycloalkyl of R³ are each

optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, and OH.

~~18~~22. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is H.

~~19. The compound of any one of claims 1-15, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₁₋₄ alkyl, optionally substituted with 1 or 2 substituents independently selected from COOH, OH, and CON(CH₃)₂.~~

~~20~~23. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₁₋₄ alkyl, optionally substituted with 1 or 2 substituents independently selected from COOH and OH.

~~21~~24. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is methyl, ethyl, isopropyl, 1,3-dihydroxypropan-2-yl, 2,3-dihydroxypropyl, 2-hydroxypropyl, 2-hydroxyethyl, 3-hydroxypropyl, carboxymethyl, 3-carboxypropyl, 2-carboxy-2-methylpropyl, or 4-carboxybutyl.

~~22~~25. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is methyl, ethyl, isopropyl, 1,3-dihydroxypropan-2-yl, 2,3-dihydroxypropyl, 2-hydroxypropyl, 2-hydroxyethyl, 3-hydroxypropyl, carboxymethyl, 3-carboxypropyl or 2-carboxy-2-methylpropyl.

~~23. The compound of any one of claims 1-15, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₃₋₈ cycloalkyl, optionally substituted with 1 or 2 substituents independently selected from COOH, OH, and CH₃.~~

~~24~~26. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₃₋₈ cycloalkyl, optionally substituted with 1 or 2 substituents independently selected from COOH and OH.

~~25~~27. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, optionally substituted with 1 or 2 substituents independently selected from COOH and OH.

~~26~~28. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is C₆₋₁₀ aryl-C₁₋₂ alkyl, optionally substituted with 1 or 2 substituents independently selected from COOH and OH.

~~27. — The compound of any one of claims 1-15, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, 4-carboxyphenethyl, (4-carboxycyclohexyl)ethyl, or 4-carboxy-4-methylcyclohexyl.~~

~~28~~29. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, or 4-carboxyphenethyl.

~~29~~30. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is 5- to 6-membered heteroaryl-C₁₋₂ alkyl, optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, and COOH.

~~30~~31. The compound of any one of claims 1-~~15~~19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is 4- to 6-membered heterocycloalkyl, optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, and COOH.

~~31~~32. The compound of any one of claims ~~1-15~~1-19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is (1H-pyrazol-3-yl)methyl, tetrahydro-2H-pyran-4-yl, 1-carbamoylpiperidin-4-yl, 1-sulfamoylpiperidin-4-yl, or (3-carboxy-1H-pyrazol-5-yl)methyl.

~~32. The compound of any one of claims 1-15, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is H, methyl, ethyl, isopropyl, 1,3-dihydroxypropan-2-yl, 2,3-dihydroxypropyl, 2-hydroxypropyl, 2-hydroxyethyl, 3-hydroxypropyl, carboxymethyl, 3-carboxypropyl, 2-carboxy-2-methylpropyl, cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, 4-carboxyphenethyl, (1H-pyrazol-3-yl)methyl, tetrahydro-2H-pyran-4-yl, 1-carbamoylpiperidin-4-yl, 1-sulfamoylpiperidin-4-yl, (3-carboxy-1H-pyrazol-5-yl)methyl, 4-carboxybutyl, (4-carboxycyclohexyl)ethyl, or 4-carboxy-4-methylcyclohexyl.~~

33. The compound of any one of claims ~~1-15~~1-19, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein R³ is H, methyl, ethyl, isopropyl, 1,3-dihydroxypropan-2-yl, 2,3-dihydroxypropyl, 2-hydroxypropyl, 2-hydroxyethyl, 3-hydroxypropyl, carboxymethyl, 3-carboxypropyl, 2-carboxy-2-methylpropyl, cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, 4-carboxyphenethyl, (1H-pyrazol-3-yl)methyl, tetrahydro-2H-pyran-4-yl, 1-carbamoylpiperidin-4-yl, 1-sulfamoylpiperidin-4-yl, or (3-carboxy-1H-pyrazol-5-yl)methyl.

34. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl, CN, F, Cl, or Br;

R² is methyl, CN, F, Cl, or Br; and

R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, or 4- to 6-membered heterocycloalkyl, wherein the 5- to 6-membered heteroaryl-C₁₋₂ alkyl and 4- to 6-membered heterocycloalkyl each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂

alkyl, and 4- to 6-membered heterocycloalkyl of R³ are each optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, OH, CON(CH₃)₂, and CH₃.

35. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl, CN, F, Cl, or Br;

R² is methyl, CN, F, Cl, or Br; and

R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, or 4- to 6-membered heterocycloalkyl, wherein the 5- to 6-membered heteroaryl-C₁₋₂ alkyl and 4- to 6-membered heterocycloalkyl each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, and 4- to 6-membered heterocycloalkyl of R³ are each optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, and OH.

36. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl or Cl;

R² is methyl, CN, or Cl; and

R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, or 4- to 6-membered heterocycloalkyl, wherein the 5- to 6-membered heteroaryl-C₁₋₂ alkyl and 4- to 6-membered heterocycloalkyl each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, and 4- to 6-membered heterocycloalkyl of R³ are each optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, OH, CON(CH₃)₂, and CH₃.

37. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl or Cl;

R² is methyl, CN, or Cl; and

R³ is H, C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, or 4- to 6-membered heterocycloalkyl, wherein the 5- to

6-membered heteroaryl-C₁₋₂ alkyl and 4- to 6-membered heterocycloalkyl each has one or two heteroatoms as ring members selected from O, N and S, and wherein the C₁₋₄ alkyl, C₃₋₈ cycloalkyl, C₃₋₈ cycloalkyl-C₁₋₂ alkyl-, C₆₋₁₀ aryl-C₁₋₂ alkyl, 5- to 6-membered heteroaryl-C₁₋₂ alkyl, and 4- to 6-membered heterocycloalkyl of R³ are each optionally substituted with 1 or 2 substituents independently selected from CONH₂, SO₂NH₂, COOH, and OH.

38. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl or Cl;

R² is methyl, CN, or Cl; and

R³ is H, methyl, ethyl, isopropyl, 1,3-dihydroxypropan-2-yl, 2,3-dihydroxypropyl, 2-hydroxypropyl, 2-hydroxyethyl, 3-hydroxypropyl, carboxymethyl, 3-carboxypropyl, 2-carboxy-2-methylpropyl, cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, 4-carboxyphenethyl, (1H-pyrazol-3-yl)methyl, tetrahydro-2H-pyran-4-yl, 1-carbamoylpiperidin-4-yl, 1-sulfamoylpiperidin-4-yl, (3-carboxy-1H-pyrazol-5-yl)methyl, 4-carboxybutyl, (4-carboxycyclohexyl)ethyl, or 4-carboxy-4-methylcyclohexyl.

39. The compound of claim 1, or a pharmaceutically acceptable salt or a stereoisomer thereof, wherein:

R¹ is methyl or Cl;

R² is methyl, CN, or Cl; and

R³ is H, methyl, ethyl, isopropyl, 1,3-dihydroxypropan-2-yl, 2,3-dihydroxypropyl, 2-hydroxypropyl, 2-hydroxyethyl, 3-hydroxypropyl, carboxymethyl, 3-carboxypropyl, 2-carboxy-2-methylpropyl, cyclobutyl, 4-hydroxycyclohexyl, (1-carboxycyclopropyl)methyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl, (4-carboxybicyclo[2.2.1]heptan-1-yl)methyl, (4-carboxybicyclo[2.2.2]octan-1-yl)methyl, (3-carboxybicyclo[1.1.1]pentan-1-yl)methyl, 4-carboxyphenethyl, (1H-pyrazol-3-yl)methyl, tetrahydro-2H-pyran-4-yl, 1-carbamoylpiperidin-4-yl, 1-sulfamoylpiperidin-4-yl, or (3-carboxy-1H-pyrazol-5-yl)methyl.

40. The compound of claim 1, wherein the compound is selected from:

4-(2-(2-((2,2'-dichloro-3'-(1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(1-methyl-5-(tetrahydro-2H-pyran-4-yl)-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(1,5-dimethyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-ethyl-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-isopropyl-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-cyclobutyl-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(1-carbamoylpiperidin-4-yl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(1-methyl-5-(1-sulfamoylpiperidin-4-yl)-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-((1H-pyrazol-3-yl)methyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-(1,3-dihydroxypropan-2-yl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-

1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(R)-4-(2-(2-((2,2'-dichloro-3'-(5-(2,3-dihydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(S)-4-(2-(2-((2,2'-dichloro-3'-(5-(2,3-dihydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(R)-4-(2-(2-((2,2'-dichloro-3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(S)-4-(2-(2-((2,2'-dichloro-3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-(2-hydroxyethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-(3-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4,4'-((((2,2'-dichloro-[1,1'-biphenyl]-3,3'-diyl)bis(azanediyl))bis(carbonyl))bis(1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridine-2,5-diyl))bis(ethane-2,1-diyl))bis(bicyclo[2.2.1]heptane-1-carboxylic acid);

4-(((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(carboxymethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(3-carboxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(2-carboxy-2-methylpropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-((1-carboxycyclopropyl)methyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[2.2.2]octane-1-carboxylic acid;

3-((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[1.1.1]pentane-1-carboxylic acid;

4-(2-(2-((3'-(5-(4-carboxyphenethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

5-((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)-1H-pyrazole-3-carboxylic acid;

4-(2-(2-((2-chloro-2'-methyl-3'-(1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2-chloro-2'-methyl-3'-(1-methyl-5-(tetrahydro-2H-pyran-4-yl)-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2-chloro-3'-(1,5-dimethyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(1-carbamoylpiperidin-4-yl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2-chloro-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(R)-4-(2-(2-((2-chloro-3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(S)-4-(2-(2-((2-chloro-3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2-chloro-3'-(5-(2-hydroxyethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4,4'-((((2-chloro-2'-methyl-[1,1'-biphenyl]-3,3'-diyl)bis(azanediyl))bis(carbonyl))bis(1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridine-2,5-diyl))bis(ethane-2,1-diyl))bis(bicyclo[2.2.1]heptane-1-carboxylic acid);

4-((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-chloro-2-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(4-carboxyphenethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2-chloro-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2'-chloro-2-methyl-3'-(1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2'-chloro-2-methyl-3'-(1-methyl-5-(tetrahydro-2H-pyran-4-yl)-4,5,6,7-

tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2'-chloro-3'-(1,5-dimethyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(1-carbamoylpiperidin-4-yl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-chloro-2-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(R)-4-(2-(2-((2'-chloro-3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(S)-4-(2-(2-((2'-chloro-3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2'-chloro-3'-(5-(2-hydroxyethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2-chloro-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(4-carboxyphenethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-chloro-2-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2-chloro-2'-cyano-3'-(1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2-chloro-2'-cyano-3'-(1-methyl-5-(tetrahydro-2H-pyran-4-yl)-4,5,6,7-

tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2-chloro-2'-cyano-3'-(1,5-dimethyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(R)-4-(2-(2-((2-chloro-2'-cyano-3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2-chloro-2'-cyano-3'-(5-(2-hydroxyethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4,4'-((((2-chloro-2'-cyano-[1,1'-biphenyl]-3,3'-diyl)bis(azanediyl))bis(carbonyl))bis(1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridine-2,5-diyl))bis(ethane-2,1-diyl))bis(bicyclo[2.2.1]heptane-1-carboxylic acid);

4-(((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-chloro-2'-cyano-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dimethyl-3'-(1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4,4'-((((2,2'-dimethyl-[1,1'-biphenyl]-3,3'-diyl)bis(azanediyl))bis(carbonyl))bis(1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridine-2,5-diyl))bis(ethane-2,1-diyl))bis(bicyclo[2.2.1]heptane-1-carboxylic acid);

4-(((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dimethyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dimethyl-3'-(1-methyl-5-(tetrahydro-2H-pyran-4-yl)-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(R)-4-(2-(2-((3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dimethyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

(S)-4-(2-(2-((3'-(5-(2-hydroxypropyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dimethyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(2-hydroxyethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dimethyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-(4-hydroxycyclohexyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid; and

4-(2-(2-((2-chloro-3'-(5-(4-hydroxycyclohexyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2'-methyl-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

or a pharmaceutically acceptable salt ~~or a stereoisomer~~ thereof.

41. The compound of claim 1, wherein the compound is selected from:

4-(2-(2-((3'-(5-(2-(trans-4-carboxycyclohexyl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(4-carboxybutyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((2,2'-dichloro-3'-(5-(5-(dimethylamino)-5-oxopentyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid;

4-(2-(2-((3'-(5-(cis-4-carboxy-4-methylcyclohexyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid; and

4-(2-(2-((3'-(5-(trans-4-carboxy-4-methylcyclohexyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)ethyl)bicyclo[2.2.1]heptane-1-carboxylic acid; or a pharmaceutically acceptable salt ~~or a stereoisomer~~ thereof.

42. The compound of claim 1, which is 4,4'-((((2-chloro-2'-methyl-[1,1'-biphenyl]-3,3'-diyl)bis(azanediyl))bis(carbonyl))bis(1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridine-2,5-diyl))bis(ethane-2,1-diyl))bis(bicyclo[2.2.1]heptane-1-carboxylic acid), or a pharmaceutically acceptable salt thereof.

43. The compound of claim 1, which is 4,4'-((((2,2'-dichloro-[1,1'-biphenyl]-3,3'-diyl)bis(azanediyl))bis(carbonyl))bis(1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridine-2,5-diyl))bis(ethane-2,1-diyl))bis(bicyclo[2.2.1]heptane-1-carboxylic acid), or a pharmaceutically acceptable salt thereof.

44. The compound of claim 1, which is 4-((2-((3'-(5-(2-(4-carboxybicyclo[2.2.1]heptan-1-yl)ethyl)-1-methyl-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridine-2-carboxamido)-2,2'-dichloro-[1,1'-biphenyl]-3-yl)carbamoyl)-1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridin-5-yl)methyl)bicyclo[2.2.1]heptane-1-carboxylic acid, or a pharmaceutically acceptable salt thereof.

45. The compound of claim 1, which is 4,4'-((((2-chloro-2'-cyano-[1,1'-biphenyl]-3,3'-diyl)bis(azanediyl))bis(carbonyl))bis(1-methyl-1,4,6,7-tetrahydro-5H-imidazo[4,5-c]pyridine-2,5-diyl))bis(ethane-2,1-diyl))bis(bicyclo[2.2.1]heptane-1-carboxylic acid), or a pharmaceutically acceptable salt thereof.

4246. A pharmaceutical composition comprising a compound of any one of claims 1-4139, or a pharmaceutically acceptable salt or a stereoisomer thereof, or a compound of any one of claims 40-45, or a pharmaceutically acceptable salt thereof, and a pharmaceutically acceptable excipient or carrier.

43. ~~A method of inhibiting PD-1/PD-L1 interaction, said method comprising administering to a patient a compound of any one of claims 1-41, or a pharmaceutically acceptable salt or a stereoisomer thereof.~~

~~44. — A method of treating a disease or disorder associated with inhibition of PD-1/PD-L1 interaction, said method comprising administering to a patient in need thereof a therapeutically effective amount of a compound of any one of claims 1-41, or a pharmaceutically acceptable salt or a stereoisomer thereof.~~

47. A compound of any one of claims 1-39, or a pharmaceutically acceptable salt or a stereoisomer thereof, or a compound of any one of claims 40-45, or a pharmaceutically acceptable salt thereof, for use in inhibiting PD-1/PD-L1 interaction.

48. A compound of any one of claims 1-39, or a pharmaceutically acceptable salt or a stereoisomer thereof, or a compound of any one of claims 40-45, or a pharmaceutically acceptable salt thereof, for use in the preparation of a medicament for treatment of a disease or disorder associated with inhibition of PD-1/PD-L1 interaction.

4549. The method of compound, salt, or stereoisomer for use according to claim 4448, wherein the disease or disorder is an infection disease, inflammation, autoimmune disease, cancer, or neurodegenerative disorder.

~~46. — A method of enhancing, stimulating and/or increasing the immune response in a patient, said method comprising administering to the patient in need thereof a therapeutically effective amount of a compound of any one of claims 1-41, or a pharmaceutically acceptable salt or a stereoisomer thereof.~~

50. The compound, salt, or stereoisomer for use according to claim 48, wherein the disease or disorder is cancer.

51. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is selected from bone cancer, pancreatic cancer, skin cancer, cancer of the head or neck, cutaneous malignant melanoma, intraocular malignant melanoma, uterine cancer, ovarian cancer, rectal cancer, cancer of the anal region, stomach cancer, testicular cancer, carcinoma of the fallopian tubes, endometrial cancer, carcinoma of the cervix, carcinoma of the vagina, carcinoma of the vulva, non-Hodgkin's lymphoma, cancer of the esophagus, cancer of the small intestine, cancer of the endocrine system, cancer of the thyroid gland, cancer of the parathyroid gland, cancer of the adrenal gland, sarcoma of soft tissue, cancer of the urethra, cancer of the penis, chronic or acute leukemias, solid tumors of childhood, lymphocytic lymphoma, cancer of the bladder, cancer of the kidney, carcinoma of the renal pelvis, neoplasm of the central nervous system (CNS), primary central nervous system (CNS) lymphoma, tumor angiogenesis, spinal axis tumor, brain stem glioma, pituitary adenoma, Kaposi's sarcoma, epidermoid cancer, squamous cell cancer, T-cell lymphoma, environmentally induced cancers including those induced by asbestos, melanoma, metastatic malignant melanoma, renal cancer, renal clear cell carcinoma, prostate cancer, hormone refractory prostate adenocarcinoma, breast cancer, colon cancer, lung cancer, squamous cell head and neck cancer, urothelial cancer, cancers with high microsatellite instability (MSI^{high}), solid tumors, prostate cancer solid tumors, colon cancer solid tumors, esophageal cancer solid tumors, endometrial cancer solid tumors, renal cancer solid tumors, hepatic cancer solid tumors, pancreatic cancer solid tumors, gastric cancer solid tumors, breast cancer solid tumors, lung cancer solid tumors, cancers of the head and neck solid tumors, thyroid cancer solid tumors, glioblastoma solid tumors, sarcoma solid tumors, bladder cancer solid tumors, relapsed Non-Hodgkin lymphoma, refractory Non-Hodgkin lymphoma, recurrent follicular Non-Hodgkin lymphoma, Hodgkin lymphoma, cholangiocarcinoma, bile duct cancer, rhabdomyosarcoma, leiomyosarcoma, hepatocellular carcinoma, Ewing's sarcoma, brain cancer, brain tumor, astrocytoma, neuroblastoma, neurofibroma, basal cell carcinoma, chondrosarcoma, epithelioid sarcoma, eye cancer, gastrointestinal cancer, gastrointestinal stromal tumors, hairy cell leukemia, intestinal cancer, islet cell cancer, oral cancer, mouth cancer, throat cancer, laryngeal cancer, lip cancer, mesothelioma, neck cancer, nasal cavity cancer, ocular cancer, ocular melanoma, pelvic cancer, renal cell carcinoma, salivary gland cancer, sinus cancer, spinal cancer, tongue cancer, tubular carcinoma, ureteral cancer,

genitourinary tract cancers, nervous system cancers, hematological cancers, hematological lymphomas, hematological leukemias, acute lymphoblastic leukemia (ALL), acute myelogenous leukemia (AML), acute promyelocytic leukemia (APL), chronic lymphocytic leukemia (CLL), chronic myelogenous leukemia (CML), diffuse large B-cell lymphoma (DLBCL), mantle cell lymphoma, myeloproliferative diseases, primary myelofibrosis (PMF), polycythemia vera (PV), essential thrombocytosis (ET), myelodysplasia syndrome (MDS), T-cell acute lymphoblastic lymphoma (T-ALL), multiple myeloma (MM), sarcomas, osteosarcoma, angiosarcoma, fibrosarcoma, liposarcoma, myxoma, rhabdomyoma, rhabdosarcoma, fibroma, lipoma, hamartoma, teratoma, non-small cell lung cancer (NSCLC), small cell lung cancer, bronchogenic carcinoma, squamous cell bronchogenic carcinoma, undifferentiated small cell bronchogenic carcinoma, undifferentiated large cell bronchogenic carcinoma, bronchogenic adenocarcinoma, alveolar (bronchiolar) carcinoma, bronchial adenoma, chondromatous hamartoma, esophagus squamous cell carcinoma, esophagus adenocarcinoma, esophagus leiomyosarcoma, esophagus lymphoma, stomach carcinoma, stomach lymphoma, stomach leiomyosarcoma, ductal adenocarcinoma, insulinoma, glucagonoma, gastrinoma, pancreas carcinoid tumors, vipoma, cancers of the small bowel, small bowel adenocarcinoma, small bowel lymphoma, small bowel carcinoid tumors, small bowel leiomyoma, small bowel hemangioma, small bowel lipoma, small bowel neurofibroma, small bowel fibroma, cancers of the large bowel, large bowel adenocarcinoma, large bowel tubular adenoma, large bowel villous adenoma, large bowel hamartoma, large bowel leiomyoma, colorectal cancer, kidney adenocarcinoma, Wilm's tumor [nephroblastoma], bladder squamous cell carcinoma, bladder transitional cell carcinoma, bladder adenocarcinoma, urethra squamous cell carcinoma, urethra transitional cell carcinoma, urethra adenocarcinoma, prostate adenocarcinoma, prostate sarcoma, cancers of the testis, testis seminoma, testis teratoma, testis embryonal carcinoma, testis teratocarcinoma, testis choriocarcinoma, testis sarcoma, testis interstitial cell carcinoma, testis fibroma, testis fibroadenoma, testis adenomatoid tumors, testis lipoma, liver cancers, hepatoma, hepatoblastoma, hepatocellular adenoma, hemangioma, malignant fibrous histiocytoma, malignant lymphoma (reticulum cell sarcoma), malignant giant cell tumor chordoma, osteochondroma (osteochondrogenous exostoses), benign chondroma, chondroblastoma, chondromyxofibroma, osteoid osteoma, giant cell tumors, cancers of the skull, osteoma, granuloma, xanthoma, osteitis deformans, cancers of the meninges, meningioma, meningiosarcoma, gliomatosis, brain astrocytoma, brain medulloblastoma, brain glioma, brain ependymoma, brain germinoma (pinealoma), brain glioblastoma, brain

glioblastoma multiform, brain oligodendroglioma, brain schwannoma, brain retinoblastoma, brain congenital tumors, cancers of the spinal cord, spinal cord neurofibroma, spinal cord meningioma, spinal cord glioma, spinal cord sarcoma, Lhermitte-Duclos disease, gynecological cancers, cancers of the uterus, endometrial carcinoma, pre-tumor cervical dysplasia, ovarian carcinoma, serous cystadenocarcinoma, mucinous cystadenocarcinoma, unclassified carcinoma, granulosa-thecal cell tumors, Sertoli-Leydig cell tumors, dysgerminoma, malignant teratoma, vulva squamous cell carcinoma, vulva intraepithelial carcinoma, vulva adenocarcinoma, vulva fibrosarcoma, vulva melanoma, vagina clear cell carcinoma, vagina squamous cell carcinoma, botryoid sarcoma, embryonal rhabdomyosarcoma, squamous cell carcinoma, moles dysplastic nevi, skin lipoma, angioma, dermatofibroma, keloids, triple-negative breast cancer (TNBC), and urothelial carcinoma

52. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is a metastatic cancer that expresses PD-L1.

53. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is lung cancer.

54. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is small cell lung cancer.

55. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is non-small cell lung cancer (NSCLC).

56. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is squamous cell carcinoma.

57. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is hepatic cancer.

58. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is hepatocellular carcinoma.

59. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is melanoma.

60. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is cancer of the bladder.

61. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is cancer of the urethra.

62. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is renal cancer.

63. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is renal clear cell carcinoma.

64. The compound, salt, or stereoisomer for use according to claim 48, wherein the cancer is selected from cutaneous melanoma, breast invasive carcinoma, squamous cell carcinoma of the head and neck, nonmuscle invasive bladder cancer (NMIBC), biliary tract cancer, squamous cell non-small cell lung cancer (NSCLC), esophagus carcinoma, stomach adenocarcinoma, colorectal adenocarcinoma, urological cancers, papillary kidney carcinoma, testicular germ cell cancer, chromophobe renal cell carcinoma, serous adenocarcinoma, and cutaneous squamous cell carcinoma.

65. The compound, salt, or stereoisomer for use according to claim 48, the cancer is cutaneous squamous cell carcinoma.

66. A compound of any one of claims 1-39, or a pharmaceutically acceptable salt or a stereoisomer thereof, or a compound of any one of claims 40-45, or a pharmaceutically acceptable salt thereof, for use in the preparation of a medicament for enhancing, stimulating and/or increasing the immune response in a patient.