

What is claimed is:

1. A method of treating a subject at risk of or having Cytokine Release Syndrome (CRS), comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.
2. A method of treating a subject in a hyperinflammatory state, comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.
3. A method of treating a subject at risk of or having Systemic Inflammatory Response Syndrome (SIRS), comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.
4. A method of reducing inflammation in a subject at risk of or having CRS or SIRS, comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.
5. A method of reducing organ damage in a subject at risk of or having CRS or SIRS, comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.
6. A method of reducing sepsis-related inflammation and organ injury in a subject, comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.

7. A method of treating a subject having influenza-like illness, comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.
8. A method of reducing symptoms related to coronavirus infection, comprising administering to a subject in need thereof a RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof.
9. The method of claim 8, wherein the coronavirus infection is by COVID-19/2019-nCoV/SARS-CoV-2, SARS-CoV, and/or MERS-CoV.
10. The method of any one of claims 1-9, wherein the RIPK1 inhibitor is (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide, and/or a pharmaceutically acceptable salt thereof.
11. The method of any one of claims 1-10, wherein a dose of about 5 mg to about 1000 mg of the RIPK1 inhibitor is administered.
12. The method of claim 11, wherein the dose is 400 mg.
13. The method of claim 11, wherein the dose is 600 mg.
14. The method of claim 11, wherein the dose is 800 mg.
15. The method of claim 11, wherein the dose is 1000 mg.
16. The method of any one of claims 1-15, wherein the RIPK1 inhibitor is administered daily.
17. The method of any one of claims 1-16, wherein the RIPK1 inhibitor is administered in conjunction with antiviral therapy.
18. The method of claim 17, wherein the antiviral therapy is chosen from remdesivir, hydroxychloroquine, galidesivir, oseltamivir, paramivir, zanamivir, ganciclovir, acyclovir, ribavirin, lopinavir, ritonavir, favipiravir, darunavir or a combination thereof.

19. The method of any one of claims 1-16, wherein the RIPK1 inhibitor is administered in conjunction with a corticosteroid treatment.
20. The method of claim 18, wherein the corticosteroid treatment is chosen from dexamethasone, betamethasone, prednisone, prednisolone, methylprednisolone, cortisone, hydrocortisone, triamcinolone, or ethamethasone or a combination thereof.
21. The method of any one of claims 1-20, wherein the RIPK1 inhibitor is administered orally.
22. The method of any one of claims 1-20, wherein the RIPK1 inhibitor is administered via gastric feeding tube.
23. The method of any one of claims 1-22, wherein the condition of the subject comprises a systemic hyperinflammatory response.
24. The method of claim 24, wherein the systemic hyperinflammatory response is shown by increase in CRP, decrease in leukocyte number, change in neutrophil number, decrease in neutrophil to lymphocyte ratio, and/or increase in IL-6.
25. The method of any one of claims 1-22, wherein the condition of the subject indicates innate immunity activation.
26. The method of claim 25, wherein innate immunity activation is shown by increase in CRP, change in neutrophil number, and/or increase in IL-6.
27. A RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof for use in treating a subject at risk of or having Cytokine Release Syndrome (CRS) or Inflammatory Response Syndrome (SIRS).
28. A RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof for use in treating a subject in a hyperinflammatory state.
29. A RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers

thereof for use in reducing inflammation or organ damage in a subject at risk of or having CRS or SIRS.

30. A RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof for use in reducing sepsis-related inflammation or organ damage in a subject.
31. A RIPK1 inhibitor comprising (S)-5-benzyl-N-(5-methyl-4-oxo-2,3,4,5-tetrahydropyrido[3,2-b][1,4]oxazepin-3-yl)-4H-1,2,4-triazole-3-carboxamide and/or a pharmaceutically acceptable salt, tautomer, stereoisomer or mixture of stereoisomers thereof for use in treating a subject having influenza-like illness.