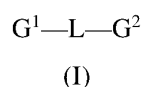


CLAIMS

What is claimed is:

1. A compound of the formula (I):



wherein:

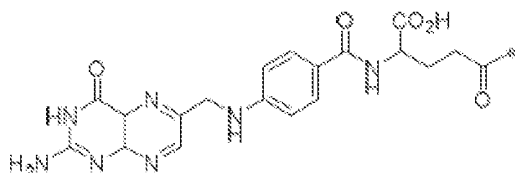
G^1 is a folate radical, an antifolate radical, or a folate analog radical;

L is a linker; and

G^2 is a radical of a steroid;

or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

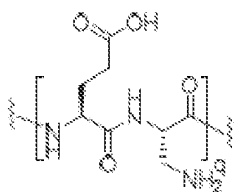
2. The compound of claim 1, wherein the folate radical has the formula:



wherein the asterisk denotes the point of attachment of the carbonyl carbon to the linker L.

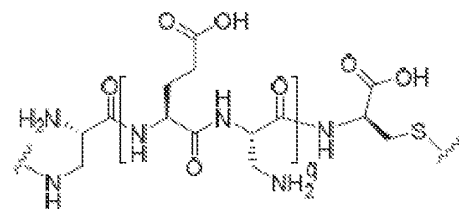
3. The compound of claim 1, where G^1 is a pteroyl-amino acid radical where the amino acid is selected from the group consisting of aspartic acid, lysine, tyrosine, cysteine, threonine, serine, histidine, arginine, and an unnatural amino acid with a derivatizable moiety in the side chain.
4. The compound of claim 1, where G^1 is an antifolate radical or a folate analog radical comprising an amino acid selected from the group consisting of aspartic acid, lysine, tyrosine, cysteine, threonine, serine, histidine, and arginine.
5. The compound of claim 1, wherein the steroid polarizes macrophages from pro-inflammatory (M1) to anti-inflammatory (M2).
6. The compound of claim 1, wherein G^2 is a radical of a steroid selected from the group consisting of betamethasone, cortisone, cortivazol, difluprednate, hydrocortisone, prednisolone, methylprednisolone, prednisone, dexamethasone, hydrocortisone-17-valerate, budesonide, flumethazone, fluticasone propionate, fluorocortisone, fludrocortisone, paramethasone, eplerenone, and an ester of any of the foregoing.
7. The compound of claim 1, wherein G^2 is a radical of dexamethasone.

8. The compound of claim 1, wherein G^2 is a radical of prednisone.
9. The compound of claim 1, wherein G^2 is a radical of prednisolone.
10. The compound of claim 1, wherein G^2 is a radical of methylprednisolone.
11. The compound of claim 1, wherein G^2 is a radical of budesonide.
12. The compound of claim 1, wherein G^2 is a radical of triamcinolone.
13. The compound of claim 1, wherein G^2 is a radical of betamethasone.
14. The compound of claim 1, wherein the linker is releasable.
15. The compound of claim 1, wherein the linker is non-releasable.
16. The compound of claim 1, wherein the linker comprises one or more of an amino acid, an alkyl chain, a polyethylene glycol (PEG) monomer, a PEG oligomer, a PEG polymer, or a combination of any of the foregoing.
17. The compound of claim 1, wherein the linker increases the water solubility of the compound.
18. The compound of claim 1, wherein the linker comprises an oligomer of peptidoglycans, glycans, anions, or a combination of any of the foregoing.
19. The compound of claim 1, wherein the linker comprises at least one 2,3-diaminopropionic acid group, at least one glutamic acid group, and at least one cysteine group.
20. The compound of claim 1, wherein the linker comprises a repeating unit of the formula:



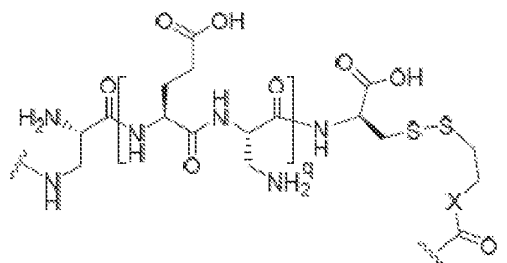
wherein q is an integer from 1 to 10.

21. The compound of claim 1, wherein the linker comprises the formula:



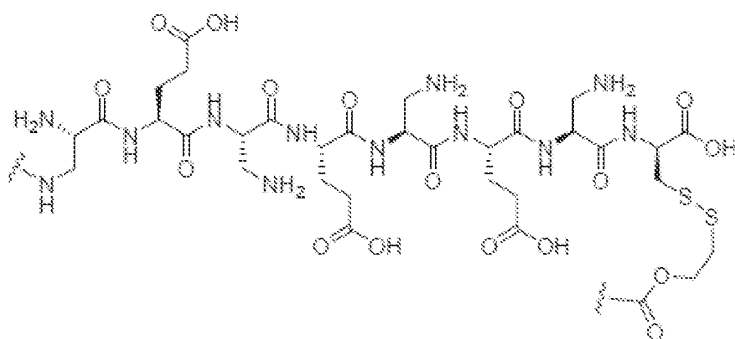
wherein q is an integer from 1 to 10.

22. The compound of claim 1, wherein the linker comprises the formula:



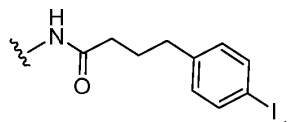
wherein X can be O, NH, NR, or S, and q is an integer from 1 to 10.

23. The compound of claim 1, wherein the linker comprises the formula:

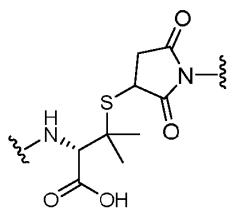


24. The compound of claim 1, wherein the linker is a bivalent linker.
25. The compound of claim 1, wherein the linker is polyvalent and has multiple attachment points for one or more additional chemical groups.
26. The compound of claim 23, wherein the additional chemical groups comprise one or more additional G^1 groups.
27. The compound of claim 23, wherein the additional chemical groups comprise one or more binding ligands that are not G^1 groups.
28. The compound of claim 1, wherein the linker comprises a PEG oligomer with 2-16 PEG units.
29. The compound of claim 1, wherein the linker comprises a PEG oligomer with 12 PEG units.
30. The compound of claim 1, wherein the linker comprises an albumin ligand.

31. The compound of claim 28, wherein the albumin ligand comprises

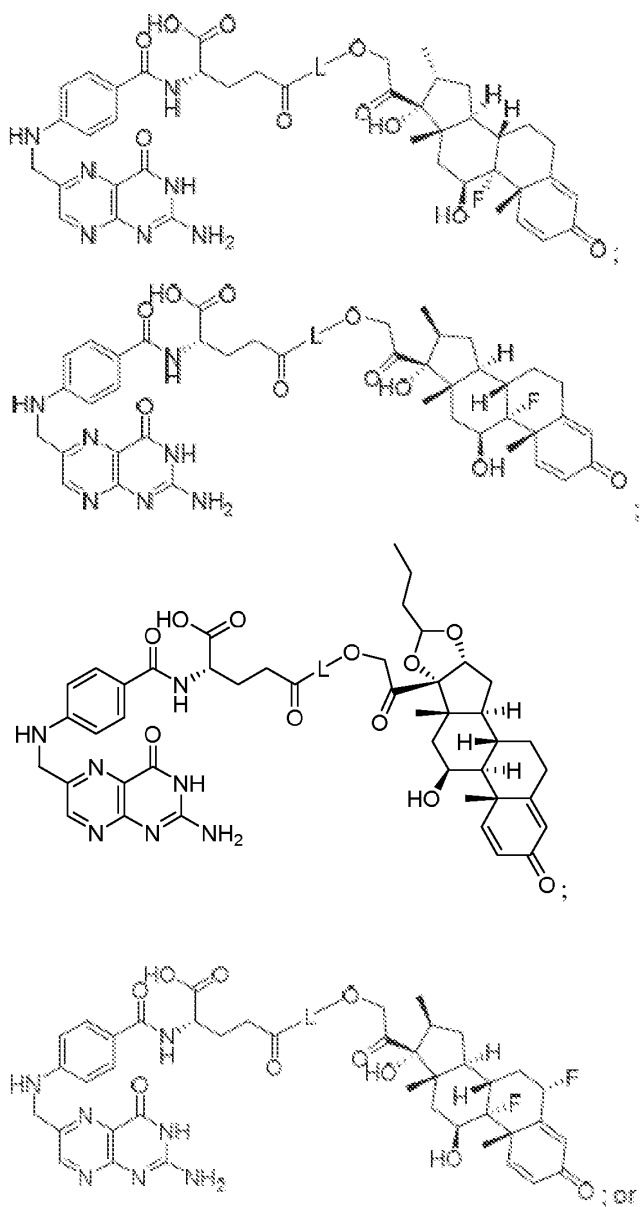


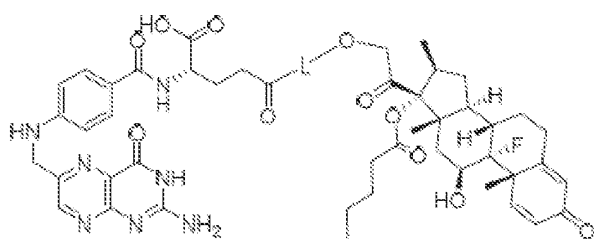
32. The compound of claim 1, wherein the linker comprises a dimethylcysteine group.
33. The compound of claim 30, wherein the dimethylcysteine group is linked to a succinimide to form:



34. The compound of claim 1, wherein the linker comprises a phosphate or pyrophosphate group.
35. The compound of claim 1, wherein the linker comprises a cathepsin B cleavable group.
36. The compound of claim 1, wherein the cathepsin B cleavable group is Valine-Citrulline.
37. The compound of claim 1, wherein the linker comprises a carbamate moiety.
38. The compound of claim 1, wherein the linker comprises a β -glucuronide.
39. The compound of claim 1, wherein the linker comprises an ester, phosphate, oxime, acetal, pyrophosphate, polyphosphate, disulfide, sulfate, hydrazide, imine, carbonate, carbamate or enzyme-cleavable amino acid sequence.
40. The compound of claim 1, wherein the linker comprises a self-immolative moiety.
41. The compound of claim 1, wherein the linker comprises a self-immolative disulfide and or sterically protected disulfide bond.
42. The compound of claim 1, wherein the linker comprises a self-immolative cathepsin-cleavable amino acid sequence.
43. The compound of claim 1, wherein the linker comprises a self-immolative furin-cleavable amino acid sequence.
44. The compound of claim 1, wherein the linker comprises a self-immolative β -glucuronidase-cleavable moiety.

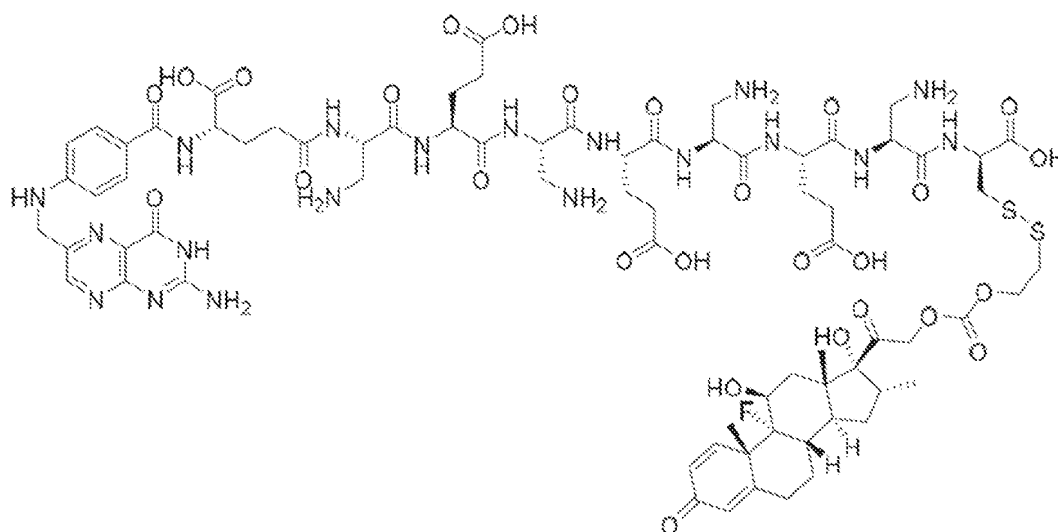
45. The compound of claim 1, wherein the linker comprises a self-immolative phosphatase-cleavable moiety.
46. The compound of claim 1, wherein the linker comprises a self-immolative sulfatase-cleavable moiety.
47. The compound of claim 1, wherein the compound has the formula:





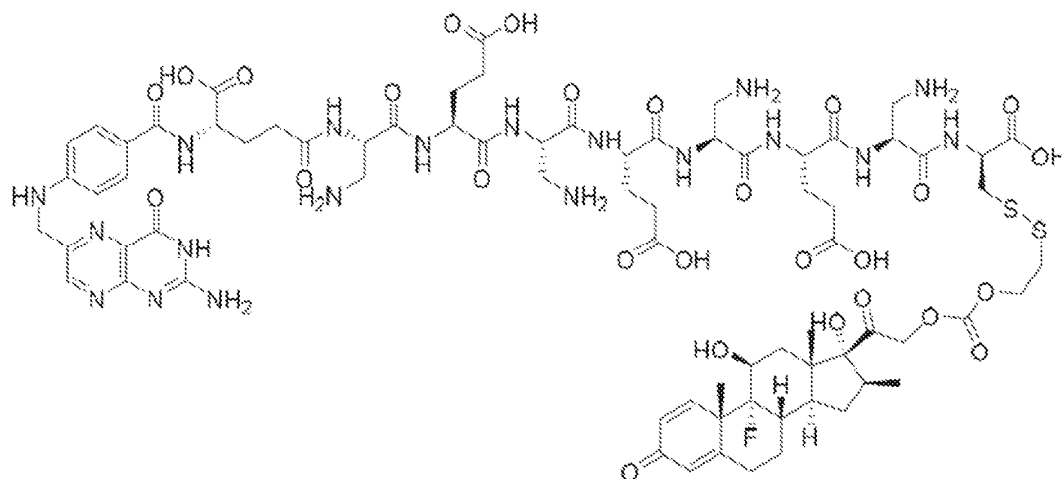
or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

48. The compound of claim 1, wherein the compound has the formula:



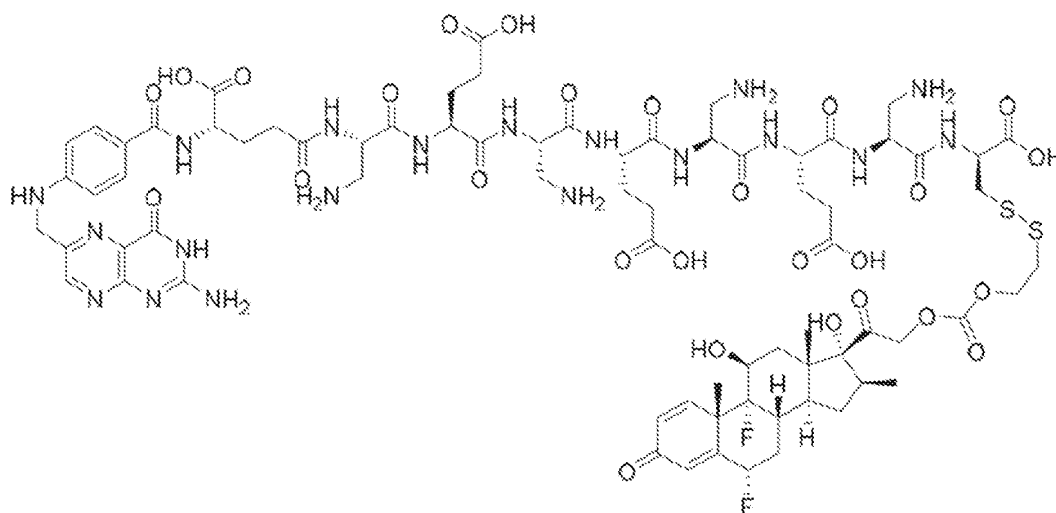
or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

49. The compound of claim 1, wherein the compound has the formula:



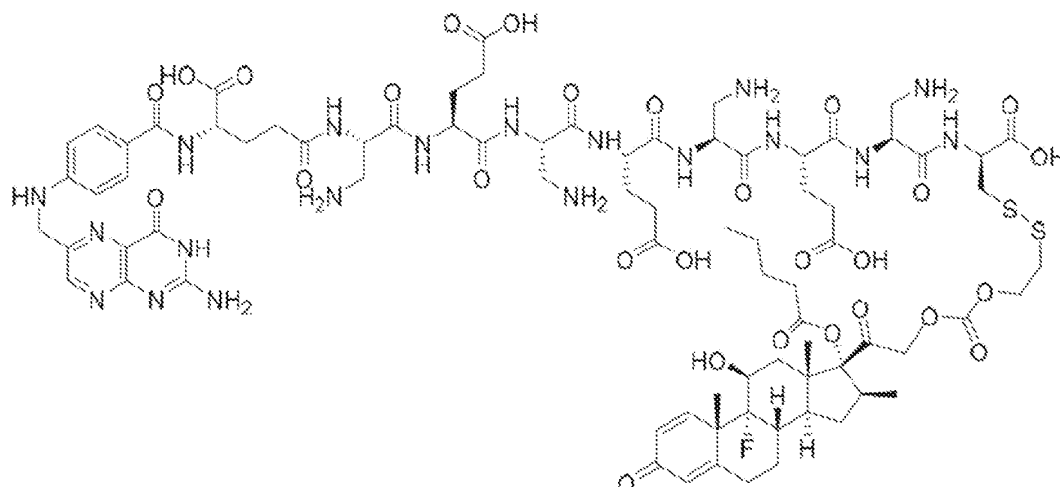
or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

50. The compound of claim 1, wherein the compound has the formula:



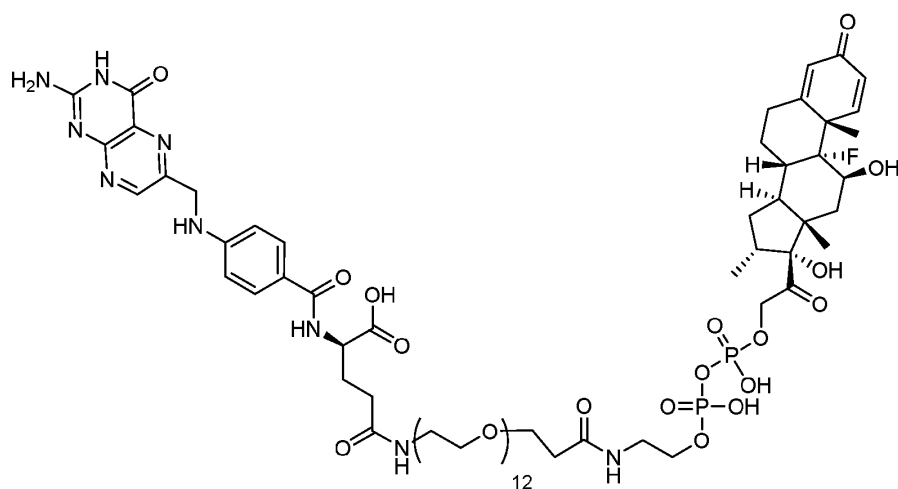
or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

51. The compound of claim 1, wherein the compound has the formula:



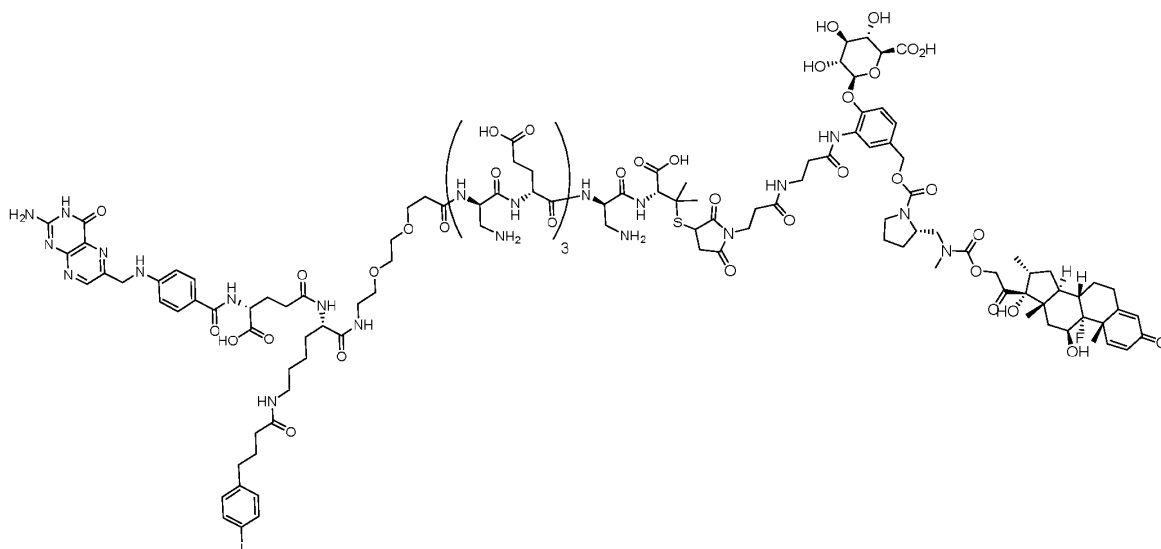
or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

52. The compound of claim 1, wherein the compound has the formula:



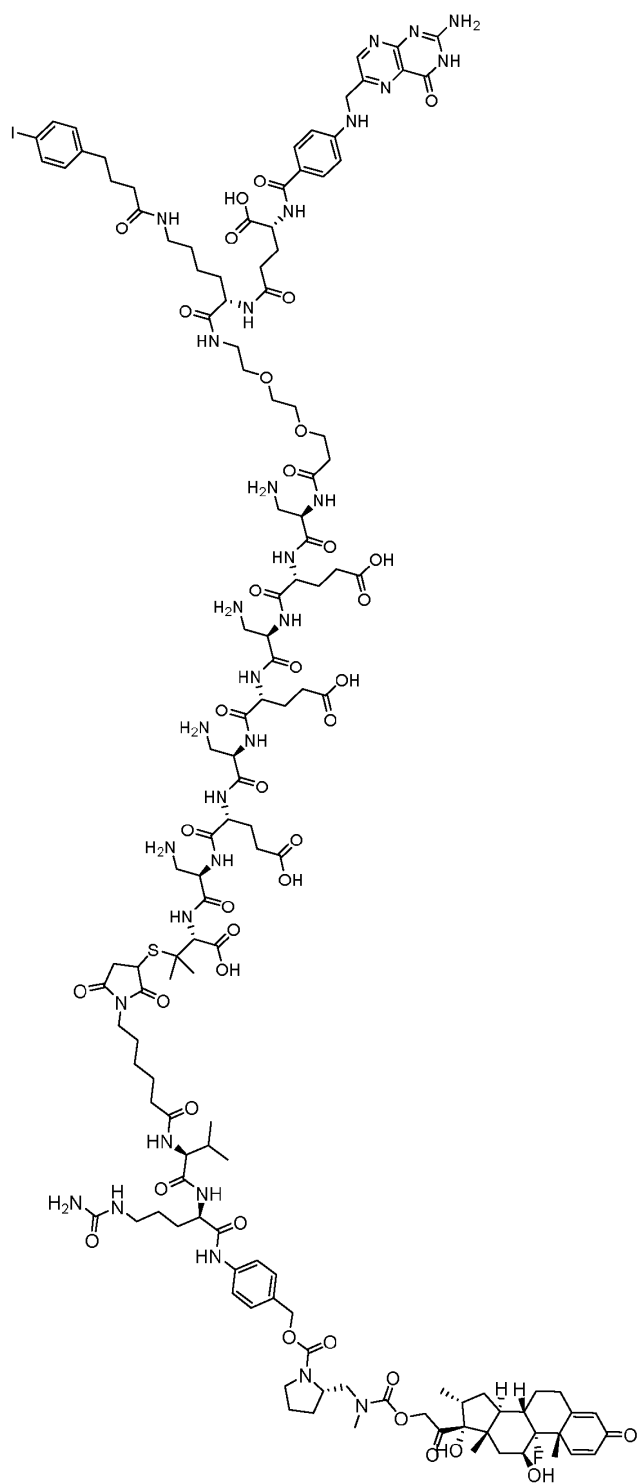
or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

53. The compound of claim 1, wherein the compound has the formula:



or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.

54. The compound of claim 1, wherein the compound has the formula:



- or a pharmaceutically acceptable salt, polymorph, prodrug, solvate or clathrate thereof.
55. The compound of claim 1, wherein the compound is selected from the compounds in the specification.
56. A pharmaceutical composition, comprising:
- a compound of any one of claims 1-55; and
 - a pharmaceutically acceptable excipient.
57. The pharmaceutical composition of claim 56, wherein a pharmaceutically acceptable excipient is part of a nanoparticle, a liposomal formulation or an exosomal formulation.
58. A method of shifting macrophages from M1 to M2 in a subject in need thereof, the method comprising: administering to the subject a therapeutically effective amount of the compound of any of claims 1-55 or a composition of claim 56 or 57.
59. A method for treating an inflammatory disorder in a subject in need thereof, the method comprising administering to the subject a therapeutically effective amount of a compound of any of claims 1-55 or a pharmaceutical composition of claim 56 or 57.
60. The method of claim 59, wherein G^2 is a radical of dexamethasone.
61. The method of claim 59, wherein G^2 is a radical of prednisone.
62. The method of claim 59, wherein G^2 is a radical of prednisolone.
63. The method of claim 59, wherein G^2 is a radical of methylprednisolone.
64. The method of claim 59, wherein G^2 is a radical of budesonide.
65. The method of claim 59, wherein G^2 is a radical of triamcinolone.
66. The method of claim 59, wherein G^2 is a radical of betamethasone.
67. The method of claim 59, wherein the inflammatory disorder is Crohn's disease, lupus, inflammatory bowel disease (IBS), Addison's disease, Grave's disease, Sjogren's syndrome, celiac disease, Hashimoto's thyroiditis, myasthenia gravis, autoimmune vasculitis, reactive arthritis, psoriatic arthritis, pernicious anemia, ulcerative colitis, rheumatoid arthritis, type 1 diabetes, multiple sclerosis, or fibrotic disease, graft vs. host disease (GVHD), fatty liver disease, asthma, osteoporosis, sarcoidosis, ischemia-reperfusion injury, prosthesis osteolysis, glomerulonephritis, scleroderma, psoriasis, with autoimmune myocarditis, spinal cord injury, central nervous system, viral infection, influenza, coronavirus infection, cytokine storm syndrome, bone damage, inflammatory brain disease, atherosclerosis, cancer, or a tumor.

68. A method of treating an autoimmune disease in a subject in need thereof, the method comprising administering to the subject a therapeutically effective amount of a compound of any of claims 1-55 or a pharmaceutical composition of claim 56 or 57.
69. The method of claim 69, wherein G^2 is a radical of dexamethasone.
70. The method of claim 69, wherein G^2 is a radical of prednisone.
71. The method of claim 69, wherein G^2 is a radical of prednisolone.
72. The method of claim 69, wherein G^2 is a radical of methylprednisolone.
73. The method of claim 69, wherein G^2 is a radical of budesonide.
74. The method of claim 69, wherein G^2 is a radical of triamcinolone.
75. The method of claim 69, wherein G^2 is a radical of betamethasone.
76. A method for treating inflammation in a subject in need thereof, the method comprising administering to the subject a therapeutically effective amount of a compound of any of claims 1-55 or a pharmaceutical composition of claim 56 or 57.
77. The method of claim 76, wherein the inflammation is associated with an autoimmune disease.
78. The method of claim 76, wherein G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, fludrocortisone, beclomethasone, fluticasone, mometasone, ciclesonide, cortisone, cortivazol, hydrocortisone, 21-hydroxypregnenolone, meprednisone, dexamethasone, triamcinolone, betamethasone, prednisone, prednisolone, and methylprednisolone.
79. The method of claim 76, wherein G^2 is a radical of dexamethasone.
80. The method of claim 76, wherein G^2 is a radical of prednisone.
81. The method of claim 76, wherein G^2 is a radical of prednisolone.
82. The method of claim 76, wherein G^2 is a radical of methylprednisolone.
83. The method of claim 76, wherein G^2 is a radical of budesonide.
84. The method of claim 76, wherein G^2 is a radical of triamcinolone.
85. The method of claim 76, wherein G^2 is a radical of betamethasone.
86. The method of claim 76, wherein the inflammation is associated with an immune disorder or disease.
87. The method of claim 76, wherein the inflammation is associated with a neuromuscular disorder or disease.

88. The method of claim 76, wherein the inflammation is associated with a hormonal disorder or disease.
89. The method of claim 76, wherein the inflammation is associated with a gastrointestinal disorder or disease.
90. The method of claim 76, wherein the inflammation is associated with a connective tissue disease or disorder.
91. The method of claim 76, wherein the inflammation is associated with a liver disease or disorder.
92. The method of claim 76, wherein the inflammation is associated with a musculoskeletal disease or disorder.
93. The method of claim 76, wherein the inflammation is associated with a blood disease or disorder.
94. The method of claim 76, wherein the inflammation is associated with a metabolic disease or disorder.
95. The method of claim 76, wherein the inflammation is associated with a metabolic disease or disorder.
96. The method of claim 76, wherein the inflammation is associated with an endocrine disease or disorder.
97. The method of claim 76, wherein the inflammation is associated with an infection.
98. The method of claim 76, wherein the inflammation is associated with a neurological disease or disorder.
99. The method of claim 76, wherein the inflammation is associated with a renal disease or disorder.
100. The method of claim 76, wherein the inflammation is associated with a pulmonary disease or disorder.
101. The method of claim 76, wherein the inflammation is associated with a tissue disease or disorder.
102. The method of claim 76, wherein the inflammation is associated with Crohn's disease, lupus, inflammatory bowel disease (IBS), Addison's disease, Grave's disease, Sjogren's syndrome, celiac disease, Hashimoto's thyroiditis, myasthenia gravis, autoimmune vasculitis, reactive arthritis, psoriatic arthritis, pernicious anemia, ulcerative colitis,

- rheumatoid arthritis, type 1 diabetes, multiple sclerosis, or fibrotic disease, graft vs. host disease (GVHD), fatty liver disease, asthma, osteoporosis, sarcoidosis, ischemia-reperfusion injury, prosthesis osteolysis, glomerulonephritis, scleroderma, psoriasis, with autoimmune myocarditis, spinal cord injury, central nervous system, viral infection, influenza, coronavirus infection, cytokine storm syndrome, bone damage, inflammatory brain disease, atherosclerosis, cancer, or a tumor.
103. The method of claim 76, wherein the inflammation is associated with Crohn's disease, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, hydrocortisone, budesonide, betamethasone, prednisone, prednisolone, and methylprednisolone.
 104. The method of claim 76, wherein the inflammation is associated with lupus, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, hydrocortisone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
 105. The method of claim 76, wherein the inflammation is associated with inflammatory bowel disease, and wherein G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, hydrocortisone, budesonide, prednisone, prednisolone, and methylprednisolone.
 106. The method of claim 76, wherein the inflammation is associated with Addison's disease, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, hydrocortisone, fludrocortisone, prednisone, prednisolone, and methylprednisolone.
 107. The method of claim 76, wherein the inflammation is associated with Grave's disease, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
 108. The method of claim 76, wherein the inflammation is associated with Sjogren's syndrome, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
 109. The method of claim 76, wherein the inflammation is associated with celiac disease, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.

110. The method of claim 77, wherein the inflammation is associated with Hashimoto's thyroiditis, and wherein G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
111. The method of claim 76, wherein the inflammation is associated with myasthenia gravis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
112. The method of claim 76, wherein the inflammation is associated with autoimmune vasculitis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
113. The method of claim 76, wherein the inflammation is associated with reactive arthritis, and G^2 is a radical of a steroid selected from the group consisting of cortisone, hydrocortisone, dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
114. The method of claim 76, wherein the inflammation is associated with psoriatic arthritis, and G^2 is a radical of a steroid selected from the group consisting of cortisone, hydrocortisone, dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
115. The method of claim 76, wherein the inflammation is associated with pernicious anemia, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, prednisone, prednisolone, and methylprednisolone.
116. The method of claim 76, wherein the inflammation is associated with ulcerative colitis, and G^2 is a radical of a steroid selected from the group consisting of cortisone, hydrocortisone, triamcinolone, beclomethasone, betamethasone, dexamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
117. The method of claim 76, wherein the inflammation is associated with rheumatoid arthritis, and G^2 is a radical of a steroid selected from the group consisting of cortisone, hydrocortisone, triamcinolone, beclomethasone, betamethasone, dexamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.

118. The method of claim 76, wherein the inflammation is associated with type 1 diabetes, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, prednisone, prednisolone, and methylprednisolone.
119. The method of claim 76, wherein the inflammation is associated with multiple sclerosis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, prednisone, prednisolone, and methylprednisolone.
120. The method of claim 76, wherein the inflammation is associated with asthma, and G^2 is a radical of a steroid selected from the group consisting of triamcinolone, fluticasone, budesonide, mometasone, beclomethasone, ciclesonide, dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
121. The method of claim 76, wherein the inflammation is associated with osteoporosis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, prednisone, prednisolone, and methylprednisolone.
122. The method of claim 76, wherein the inflammation is associated with sarcoidosis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, prednisone, prednisolone, and methylprednisolone.
123. The method of claim 76, wherein the inflammation is associated with glomerulonephritis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
124. The method of claim 76, wherein the inflammation is associated with autoimmune myocarditis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
125. The method of claim 76, wherein the inflammation is associated with a fibrotic disease, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, and prednisone.
126. The method of claim 76, wherein the inflammation is associated with graft vs. host disease (GVHD), and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.

127. The method of claim 76, wherein the inflammation is associated with fatty liver disease, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
128. The method of claim 76, wherein the inflammation is associated with ischemia-reperfusion injury, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
129. The method of claim 76, wherein the inflammation is associated with prosthesis osteolysis, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
130. The method of claim 76, wherein the inflammation is associated with scleroderma, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, budesonide, betamethasone, triamcinolone, prednisone, prednisolone, and methylprednisolone.
131. The method of claim 76, wherein the inflammation is associated with psoriasis, and G^2 is a radical of a steroid selected from the group consisting of budesonide, betamethasone, triamcinolone, prednisone, prednisolone, methylprednisolone, hydrocortisone, dexamethasone, hydrocortisone-17-valerate, diflorasone, meprednisone, halobetacol, tixocortol, amcinonide, desonide, fluocinolone acetonide, fluocinonide, halcinonide, beclomethasone, and halometasone.
132. The method of claim 76, wherein the inflammation is associated with spinal cord injury, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
133. The method of claim 76, wherein the inflammation is of the central nervous system, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
134. The method of claim 76, wherein the inflammation is associated with a viral infection, and G^2 is a radical of a steroid selected from the group consisting of hydrocortisone, dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.

135. The method of claim 76, wherein the inflammation is associated with influenza, and G^2 is a radical of a steroid selected from the group consisting of hydrocortisone, dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
136. The method of claim 76, wherein the inflammation is associated with SARS-CoV-2 (COVID-19), and G^2 is a radical of a steroid selected from the group consisting of hydrocortisone, dexamethasone, betamethasone, budesonide, and prednisone, prednisolone, and methylprednisolone.
137. The method of claim 76, wherein the inflammation is associated with cytokine storm syndrome, and G^2 is a radical of a steroid selected from the group consisting of hydrocortisone, dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
138. The method of claim 76, wherein the inflammation is associated with damage to bone, and G^2 is a radical of a steroid selected from the group consisting of cortisone, cortivazol, hydrocortisone, 21-hydroxypregnenolone, meprednisone, dexamethasone, triamcinolone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
139. The method of claim 76, wherein the inflammation is associated with inflammatory brain disease, and G^2 is a radical of a steroid selected from the group consisting of dexamethasone, betamethasone, budesonide, prednisone, prednisolone, and methylprednisolone.
140. The method of claim 76, wherein the inflammation is associated with atherosclerosis, and G^2 is a radical of a steroid selected from the group consisting of fluticasone, budesonide, beclomethasone, ciclesonide, dexamethasone, betamethasone, prednisone, prednisolone, and methylprednisolone.
141. The method of claim 76, wherein the inflammation is associated with a tumor, and wherein G^2 is a radical of a steroid selected from the group consisting of cortisone, hydrocortisone, clobetasol, dexamethasone, betamethasone, budesonide, meprednisone, prednisone, prednisolone, and methylprednisolone.
142. The method of claim 76, wherein the inflammation is associated with cancer, and G^2 is a radical of a steroid selected from the group consisting of cortisone, hydrocortisone,

clobetasol, dexamethasone, betamethasone, budesonide, meprednisone, prednisone, prednisolone, and methylprednisolone.

143. A method for treating a disease or disorder that involves polarizing macrophages from M1 to M2 in a subject in need thereof, the method comprising administering to the subject a therapeutically effective amount of a compound of any of claims 1-55 or a pharmaceutical composition of claim 56 or 57.