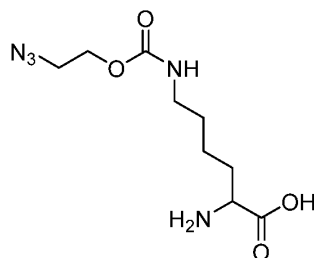


CLAIMS

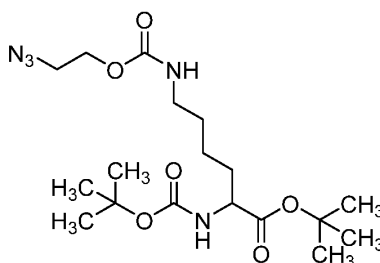
1. A method of preparing a compound of Formula (VI)



(VI)

or a salt thereof,

comprising reacting a compound of Formula (III)



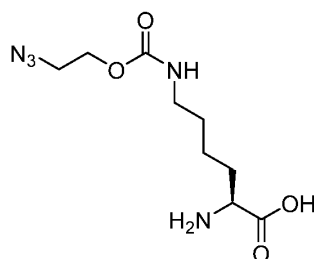
(III)

with an acid to afford the compound of Formula (VI) or a salt thereof.

2. The method of claim 1, wherein the acid is one or more of phosphoric acid, hydrochloric acid, acetic acid, and trifluoroacetic acid.
3. The method of claim 1 or 2, wherein the acid is hydrochloric acid.
4. The method of any one of claims 1-3, wherein the reaction of the compound of Formula (III) with the acid is performed in a solution comprising an aprotic solvent selected from acetonitrile, acetone, methyl ethyl ketone, dichloromethane, chloroform, tetrahydrofuran, 2-methyltetrahydrofuran, N-methylpyrrolidine, dimethylsulfoxide, N,N-dimethylformamide, dimethylacetamide, 1,4-dioxane, sulfolane, gamma butyrolactone, pyrrolidones, 1-methyl-2-pyrrolidinone, methylpyrrolidine, ethylene glycol monomethyl ether, diethylene glycol monomethyl ether, PEG400 and polyethylene glycols.
5. The method of claim 4, wherein the aprotic solvent is 1,4-dioxane.
6. The method of any one of claims 1-5, wherein the method further comprises addition of a

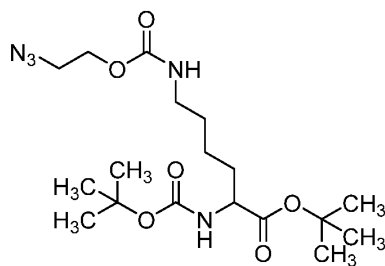
base.

7. The method of claim 6, wherein the base is one or more of ammonium hydroxide, sodium hydroxide, or potassium hydroxide.
8. The method of claim 6 or 7, wherein the base is ammonium hydroxide.
9. The method of any one of claims 6-8, wherein addition of the base provides a solution having a pH in a range from 4 to 10.
10. The method of any one of claims 6-9, wherein addition of the base provides a solution having a pH in a range from 8 to 9.
11. The method of any one of claims 1-10, wherein the compound of Formula (VI) is a compound of Formula (VIa)



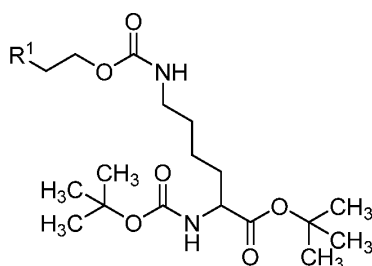
(VIa).

12. A method of preparing a compound of Formula (III)



(III)

comprising reacting a compound of Formula (II)

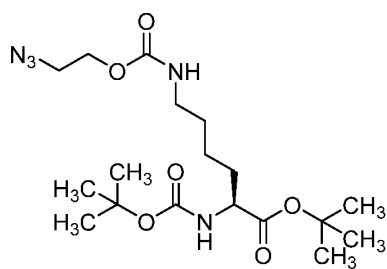


(II)

wherein R¹ is selected from chloro, bromo, and iodo,

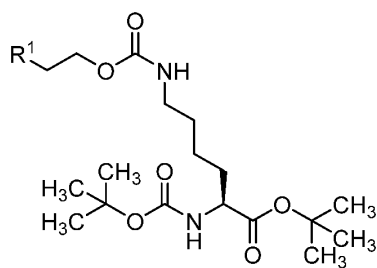
with an alkali azide salt to afford the compound of Formula (III).

13. The method of claim 12, wherein R¹ is chloro.
14. The method of claim 12 or 13, wherein the alkali azide salt is selected from lithium azide, sodium azide, and potassium azide.
15. The method of any one of claims 12-14, wherein the alkali azide salt is sodium azide.
16. The method of any one of claims 12-15, wherein the reaction of the compound of Formula (II) with the alkali azide salt is performed in a solution comprising an aprotic solvent selected from acetonitrile, acetone, methyl ethyl ketone, dichloromethane, chloroform, tetrahydrofuran, 2-methyltetrahydrofuran, N-methylpyrrolidine, dimethylsulfoxide, N,N-dimethylformamide, dimethylacetamide, 1,4-dioxane, sulfolane, gamma butyrolactone, pyrrolidones, 1-methyl-2-pyrrolidinone, methylpyrrolone, ethylene glycol monomethyl ether, diethylene glycol monomethyl ether, PEG400, polyethylene glycols.
17. The method of claim 16, wherein the aprotic solvent is acetonitrile.
18. The method of claim 16 or 17, wherein the solution further comprises water.
19. The method of any one of claims 12-18, wherein the compound of Formula (III) is a compound of Formula (IIIa)



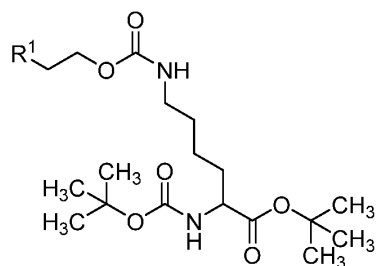
(IIIa),

and the compound of Formula (II) is a compound of Formula (IIa)



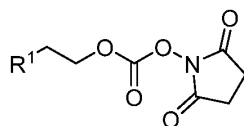
(IIa).

20. A method of preparing a compound of Formula (II)



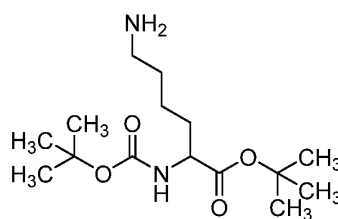
(II)

comprising reacting a compound of Formula (I)



(I)

with a compound of Formula (V)

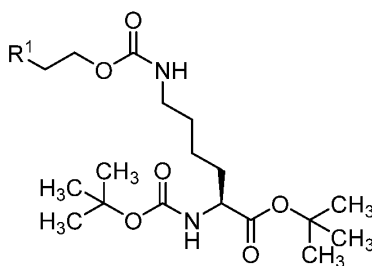


(V)

to afford the compound of Formula (II),

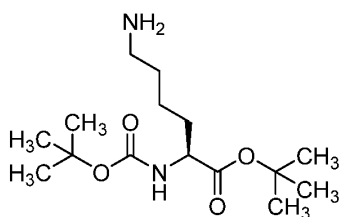
wherein in each of the compounds of Formula (I) and Formula (II), R^1 is the same and is selected from chloro, bromo and iodo.

21. The method of claim 20, wherein R^1 in each of the compounds of Formula (I) and Formula (II) is chloro.
22. The method of claim 20 or 21, wherein the reaction of the compound of Formula (V) with the compound of Formula (I) is performed in a solution comprising an aprotic solvent selected from acetonitrile, acetone, methyl ethyl ketone, dichloromethane, chloroform, tetrahydrofuran, 2-methyltetrahydrofuran, N-methylpyrrolidine, dimethylsulfoxide, N,N-dimethylformamide, dimethylacetamide, 1,4-dioxane, sulfolane, gamma butyrolactone, pyrrolidones, 1-methyl-2-pyrrolidinone, methylpyrrolidine, ethylene glycol monomethyl ether, diethylene glycol monomethyl ether, PEG400 and polyethylene glycols.
23. The method of claim 22, wherein the aprotic solvent is 2-methyltetrahydrofuran or N,N-dimethylformamide.
24. The method of any one of claims 20-23, wherein the compound of Formula (II) is a compound of Formula (IIa)



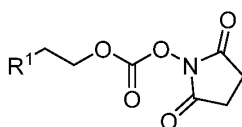
(IIa),

and the compound of Formula (V) is a compound of Formula (Va)



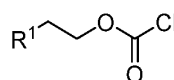
(Va).

25. A method of preparing a compound of Formula (I)



(I)

comprising reacting a compound of Formula (IV)



(IV)

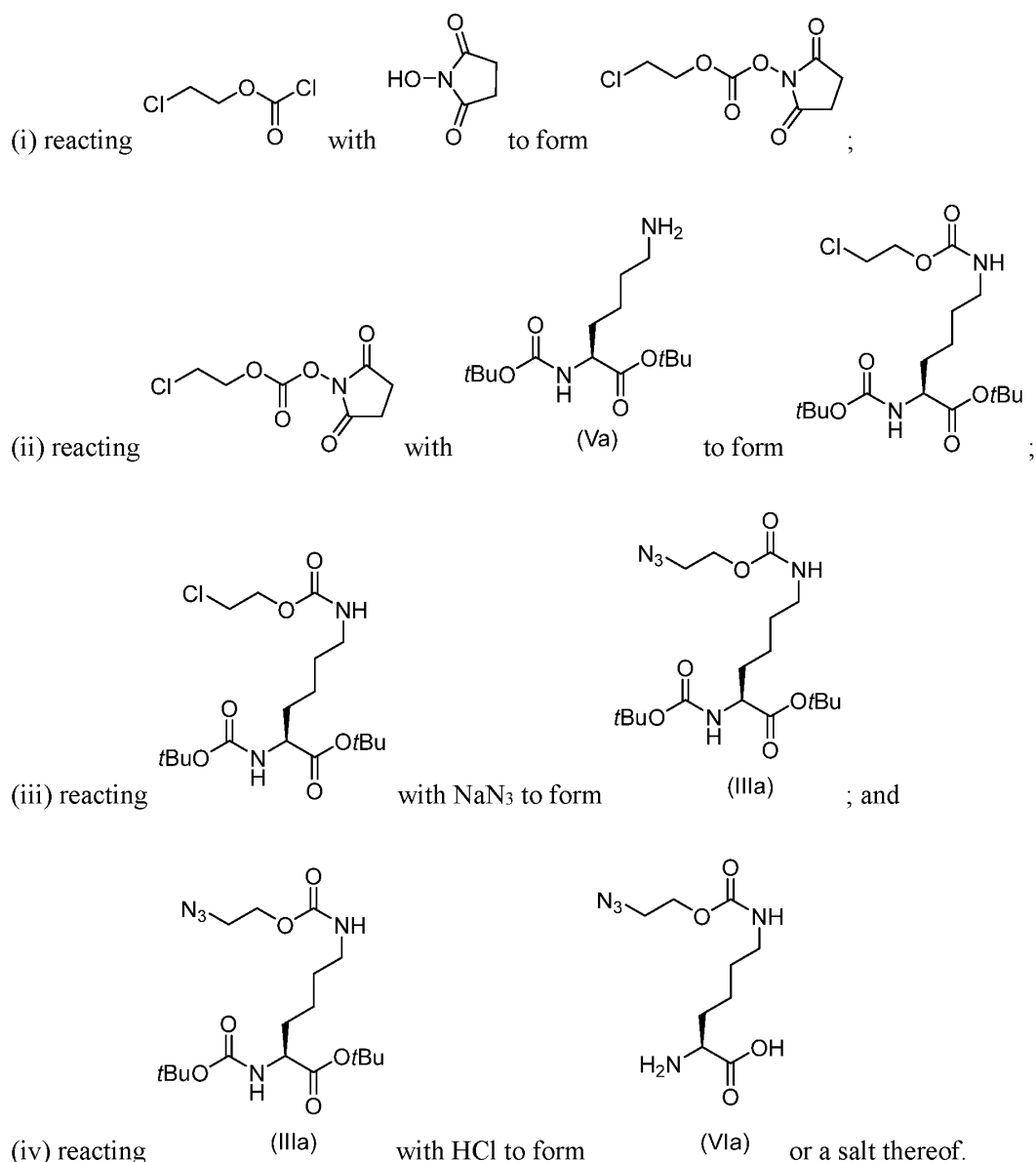
with N-hydroxysuccinimide to afford the compound of Formula (I),

wherein in each of the compounds of Formula (I) and Formula (IV), R¹ is the same and is selected from chloro, bromo, and iodo.

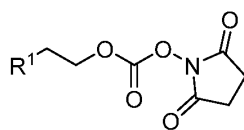
26. The method of claim 25, wherein R¹ is chloro.

27. The method of claim 25 or 26, wherein the reaction of the compound of Formula (IV) with N-hydroxysuccinimide is performed in a solution comprising an aprotic solvent selected from acetonitrile, acetone, methyl ethyl ketone, dichloromethane, chloroform, tetrahydrofuran, 2-methyltetrahydrofuran, N-methylpyrrolidine, dimethylsulfoxide, N,N-dimethylformamide, dimethylacetamide, 1,4-dioxane, sulfolane, gamma butyrolactone, pyrrolidones, 1-methyl-2-pyrrolidinone, methylpyrrolidine, ethylene glycol monomethyl ether, diethylene glycol monomethyl ether, PEG400 and polyethylene glycols.

28. The method of claim 27, wherein the aprotic solvent is acetonitrile or 2-methyltetrahydrofuran.
29. The method of claim 27 or 28, wherein the solution further comprises a base.
30. The method of claim 29, wherein the base is a trialkylamine.
31. The method of claim 29 or 30, wherein the base is triethylamine.
32. A method of preparing a compound of Formula (VIa), or a salt thereof, comprising the following steps:



33. A compound of Formula (I):

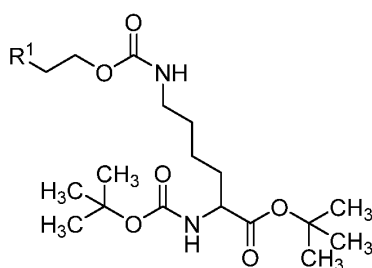


(I)

wherein R¹ is selected from chloro, bromo, and iodo.

34. The compound of claim 33, wherein R¹ is chloro.

35. A compound of Formula (II):

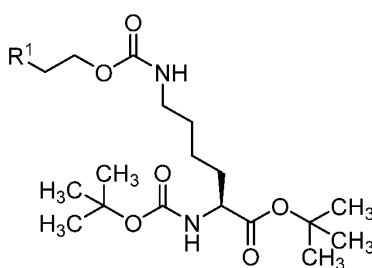


(II)

wherein R¹ is selected from chloro, bromo, and iodo.

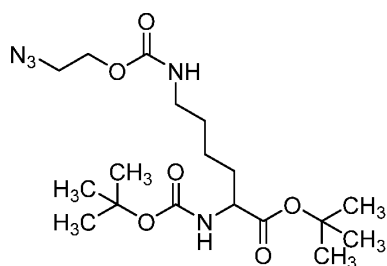
36. The compound of claim 35, wherein R¹ is chloro.

37. The compound of claim 35 or 36, wherein the compound of Formula (II) is a compound of Formula (IIa):



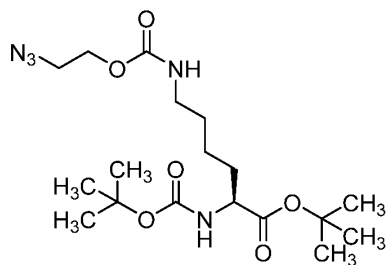
(IIa).

38. A compound of Formula (III):



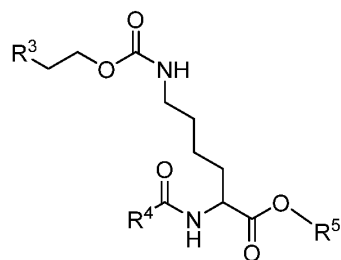
(III).

39. The compound of claim 38, wherein the compound of Formula (III) is a compound of Formula (IIIa):



(IIIa).

40. A compound of Formula (VII):



(VII)

wherein:

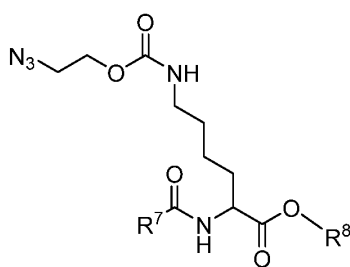
R^3 is selected from chloro, bromo and iodo;

R^4 is selected from $-OR^6$, $-CF_3$, $-CH_2C_6-C_{12}aryl$, and C_1-C_6 alkyl;

R⁵ is -CH₂C₆-C₁₂aryl or C₁-C₆ alkyl; and

R⁶ is selected from C₁-C₆ alkyl, C₆-C₁₂aryl, and -CH₂C₆-C₁₂aryl.

41. A compound of Formula (VIII):



(VIII)

wherein:

R⁷ is selected from -OR⁹, -CF₃, -CH₂C₆-C₁₂aryl, and C₁-C₆ alkyl;

R⁸ is -CH₂C₆-C₁₂aryl or C₁-C₆ alkyl; and

R⁹ is selected from C₁-C₆ alkyl, C₆-C₁₂aryl, and -CH₂C₆-C₁₂aryl.