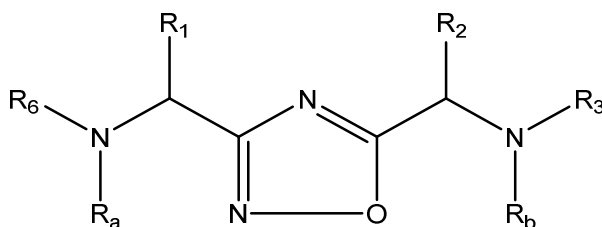


CLAIMS

1. A compound of formula (IA):



(IA)

- 5 or a pharmaceutically acceptable salt thereof; wherein,

R₁ and R₂ independently are a side chain of an amino acid, (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl or cycloalkyl; wherein each of (C₁-C₆)alkyl, (C₂-C₆)alkenyl, (C₂-C₆)alkynyl or cycloalkyl is optionally substituted by one or more substituents, each independently selected from amino, alkylamino, acylamino, carboxylic acid, carboxylate, carboxylic acid ester, thiocarboxylate, thioacid, -CONR₇R₈, hydroxy, cycloalkyl, (cycloalkyl)alkyl, aryl, arylalkyl, heterocyclyl, (heterocyclyl)alkyl, heteroaryl, (heteroaryl)alkyl, guanidino, -SH and -S(alkyl); optionally wherein each cycloalkyl, aryl, heterocyclyl or heteroaryl is further substituted by one or more substituents such as hydroxy, alkoxy, halo, amino, nitro, cyano or alkyl and optionally wherein two or three carbon atoms of the (C₁-C₆)alkyl, (C₂-C₆)alkenyl or (C₂-C₆)alkynyl form part of a 3-7-membered carbocyclic or heterocyclic ring (such as a cyclobutyl or oxirane ring);

R₃ is -CO-[Aaa1]_m;

R₆ is hydrogen or alkyl;

- 20 R₇ and R₈ independently are hydrogen, (C₁-C₆)alkyl, aryl or heterocyclyl;

[Aaa1] represents an amino acid residue having a side chain; wherein a C-terminal carboxyl moiety of the amino acid residue is a free C-terminal carboxyl moiety (-COOH) or a modified C-terminal carboxyl moiety, and an N-terminal amino moiety of the amino acid residue is a free N-terminus (-NH₂) or a modified N-terminal amino moiety;

R_a is hydrogen or alkyl;

R_b is hydrogen, alkyl, alkenyl, alkynyl, acyl, aralkyl, aryl, heteroaralkyl, heteroaryl, cycloalkyl, (cycloalkyl)alkyl, aminoalkyl, hydroxyalkyl or alkoxyalkyl; or
5 R_b and R₂, together with the atoms to which they are attached, form pyrrolidine or piperidine, each optionally substituted with one or more substituents independently selected from hydroxyl, halo, amino, cyano and alkyl;

m is integer from 1 to 3; and

with a proviso that when R₂ is a side chain of Asp, Asn, Glu or Gln, R₃ is -CO-Ser or -CO-Thr, R₆ is hydrogen or alkyl and R_a and R_b are hydrogen, then R₁ is not a
10 side chain of Ser or Thr.

2. The compound of claim 1, wherein R_b is H.

3. The compound of claim 1 or 2, wherein the side chain of [Aaa1]
15 comprises a (C₁-C₄)alkyl optionally substituted by one or more substituents, each independently selected from amino, alkylamino, acylamino, carboxylic acid, carboxylate, thiocarboxylate, thioacid, -CONR₇R₈, hydroxy, cycloalkyl, (cycloalkyl)alkyl, aryl, heterocyclyl, heteroaryl, guanidino, -SH, and -S(alkyl); and optionally wherein each cycloalkyl, aryl, heterocyclyl or heteroaryl is further substituted
20 by one or more substituents such as hydroxy, alkoxy, halo, amino, nitro, cyano or alkyl.

4. The compound of any one of claims 1 to 3, wherein the side chain of [Aaa1] comprises a (C₁-C₄)alkyl substituted by one or more substituents, each independently selected from amino, acylamino, carboxylic acid, -CONR₇R₈, hydroxy, cycloalkyl, aryl, heteroaryl, guanidino, -SH and -S(alkyl); and wherein R₇ and R₈
25 independently are hydrogen, alkyl, aryl or heterocyclyl.

5. The compound of any one of claims 1 to 4, wherein R_a is H.

6. The compound of any one of claims 1 to 5, wherein R₁ is (C₁-C₆)alkyl optionally substituted by one or more substituents, each independently selected from amino, alkylamino, acylamino, carboxylic acid, carboxylate, carboxylic acid ester, thiocarboxylate, thioacid, -CONR₇R₈, hydroxy, cycloalkyl, (cycloalkyl)alkyl, aryl, arylalkyl, heterocyclyl, (heterocyclyl)alkyl, heteroaryl, (heteroaryl)alkyl, guanidino, -SH, and -S(alkyl); and optionally wherein each cycloalkyl, aryl, heterocyclyl or heteroaryl is further substituted by one or more substituents such as hydroxy, alkoxy, halo, amino, nitro, cyano or alkyl.
7. The compound of any one of claims 1 to 6, wherein R₁ is (C₁-C₆)alkyl substituted by one or more substituents each independently selected from amino, acylamino, carboxylic acid, -CONR₇R₈, hydroxy, cycloalkyl, aryl, heteroaryl, guanidino, -SH, and -S(alkyl); and wherein R₇ and R₈ independently are hydrogen, alkyl or aryl.
8. The compound of any one of claims 1 to 5, wherein R₁ is the side chain of an amino acid.
9. The compound of any one of claims 1 to 5, wherein R₁ is a side chain of an amino acid selected from Ala, Asn, Asp, Tyr, Lys, Ser, Thr, Gln, Ile, Val, Glu, Arg, Leu, Trp, His, Met, Cys, and Phe.
10. The compound of any one of claims 1 to 9, wherein R₂ is (C₁-C₆)alkyl optionally substituted by one or more substituents, each independently selected from amino, alkylamino, acylamino, carboxylic acid, carboxylate, carboxylic acid ester, thiocarboxylate, thioacid, -CONR₇R₈, hydroxy, cycloalkyl, (cycloalkyl)alkyl, aryl, arylalkyl, heterocyclyl, (heterocyclyl)alkyl, heteroaryl, (heteroaryl)alkyl, guanidino, -SH, and -S(alkyl); and optionally wherein each cycloalkyl, aryl, heterocyclyl or heteroaryl is further substituted by one or more substituents such as hydroxy, alkoxy, halo, amino, nitro, cyano or alkyl.

11. The compound of any one of claims 1 to 10, wherein R₂ is (C₁-C₆)alkyl substituted by one or more substituents, each independently selected from amino, acylamino, carboxylic acid, -CONR₇R₈, hydroxy, cycloalkyl, aryl, heteroaryl, guanidino, -SH and -S(alkyl); and wherein R₇ and R₈ independently are hydrogen or alkyl.

12. The compound of any one of claims 1 to 10, wherein R₂ is the side chain of an amino acid.

13. The compound of any one of claims 1 to 9, wherein R₂ is a side chain of an amino acid selected from Ala, Asn, Ile, Lys, Phe, Glu, Asp, Trp, Val, Ser, Gln, Tyr, Thr, Met, Arg, Gly, and Leu.

14. The compound of any one of claims 1 to 9, wherein R₆ and R₂, together with the atoms to which they are attached, form pyrrolidine or piperidine, optionally substituted with one or more substituents, each independently selected from hydroxyl, halo, amino, cyano and alkyl.

15. The compound of any one of claims 1 to 14, wherein R₆ is H.

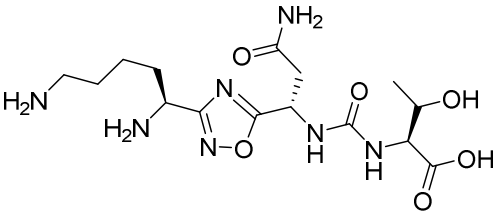
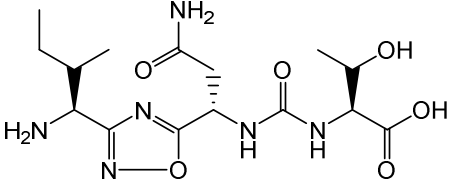
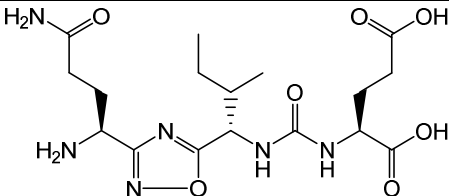
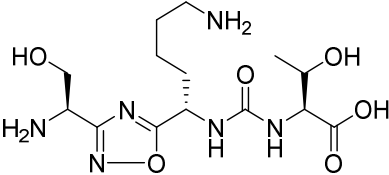
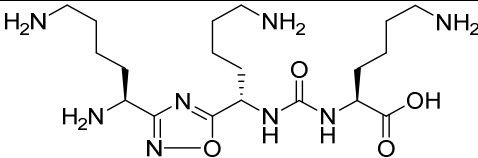
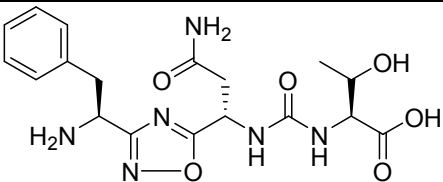
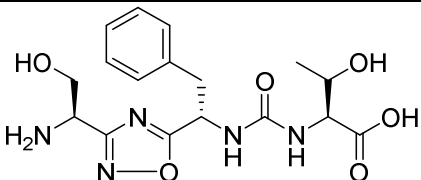
16. The compound of any one of claims 1 to 15, wherein at least one of the amino acid residues is a D amino acid residue.

17. The compound of any one of claims 1 to 16, wherein at least one of the amino acid residues is an L amino acid residue.

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

Compound No.	Structure
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Compound No.	Structure
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Compound No.	Structure
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Compound No.	Structure
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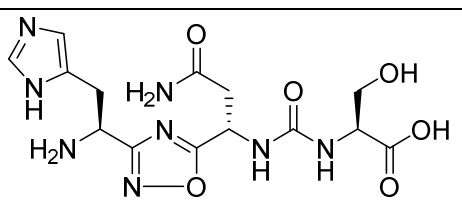
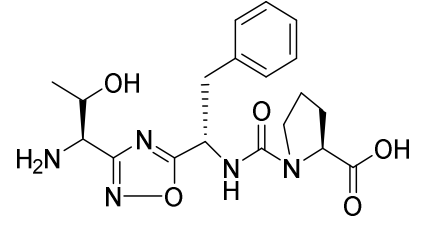
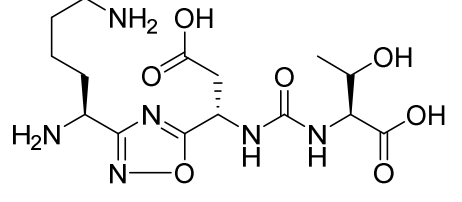
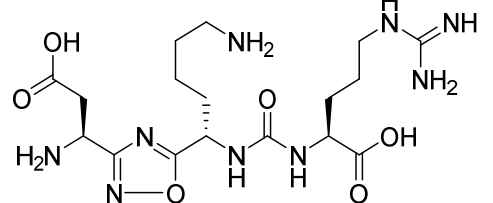
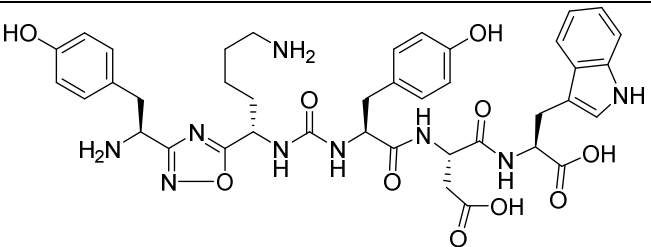
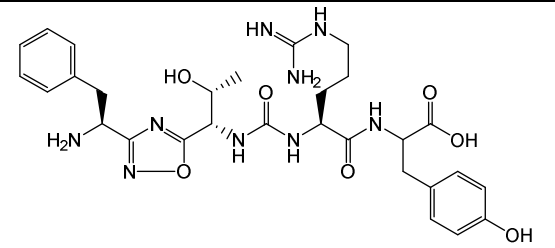
Compound No.	Structure
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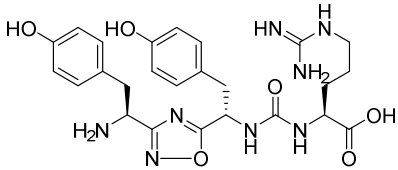
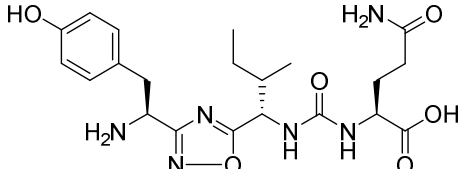
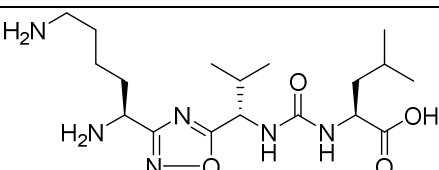
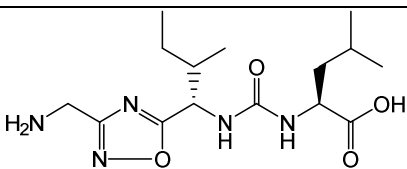
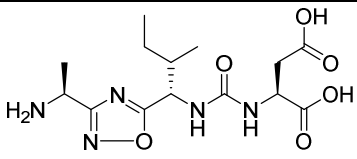
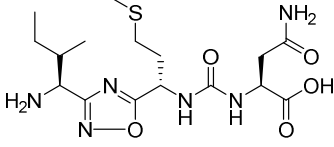
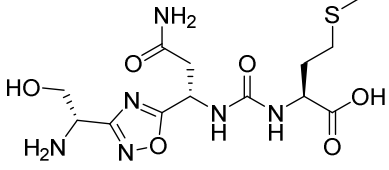
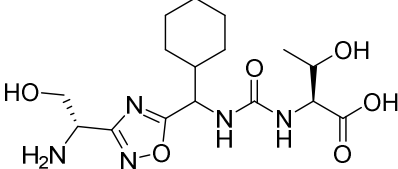
Compound No.	Structure
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Compound No.	Structure
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Compound No.	Structure
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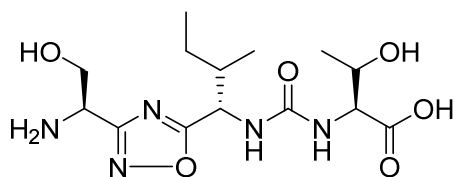
Compound No.	Structure
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Compound No.	Structure
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Compound No.	Structure
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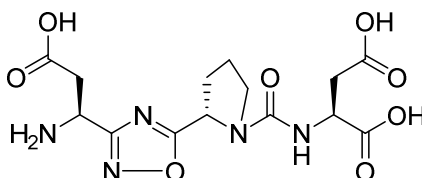
Compound No.	Structure
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Compound No.	Structure
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113	



or a pharmaceutically acceptable salt thereof.

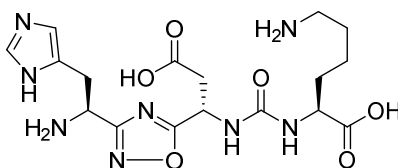
21. The compound of claim 1, wherein the compound is



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or a pharmaceutically acceptable salt thereof.

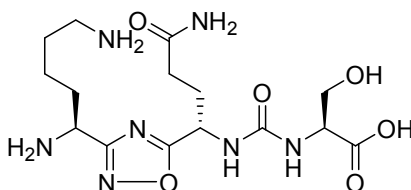
22. The compound of claim 1, wherein the compound is



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or a pharmaceutically acceptable salt thereof.

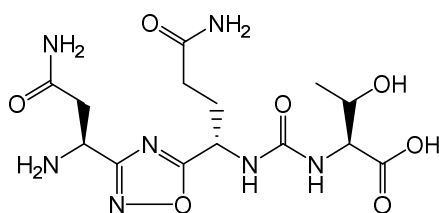
23. The compound of claim 1, wherein the compound is



or a pharmaceutically acceptable salt thereof.

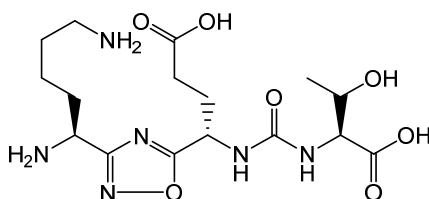
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24. The compound of claim 1, wherein the compound is



or a pharmaceutically acceptable salt thereof.

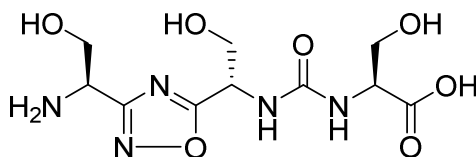
25. The compound of claim 1, wherein the compound is



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or a pharmaceutically acceptable salt thereof.

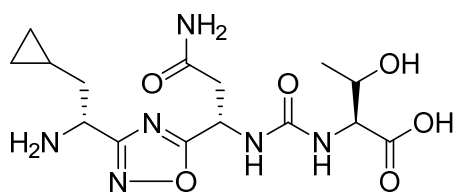
26. The compound of claim 1, wherein the compound is



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or a pharmaceutically acceptable salt thereof.

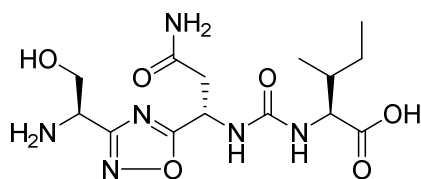
27. The compound of claim 1, wherein the compound is



or a pharmaceutically acceptable salt thereof.

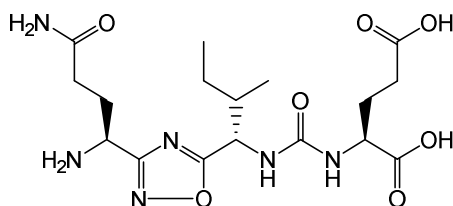
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28. The compound of claim 1, wherein the compound is



or a pharmaceutically acceptable salt thereof.

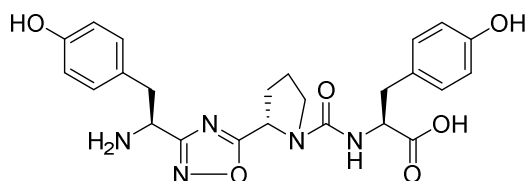
29. The compound of claim 1, wherein the compound is



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or a pharmaceutically acceptable salt thereof.

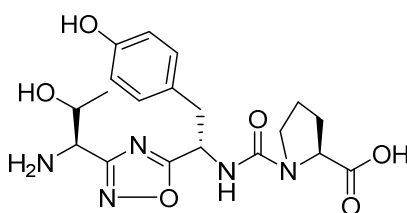
30. The compound of claim 1, wherein the compound is



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or a pharmaceutically acceptable salt thereof.

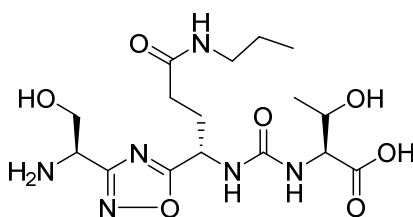
31. The compound of claim 1, wherein the compound is



or a pharmaceutically acceptable salt thereof.

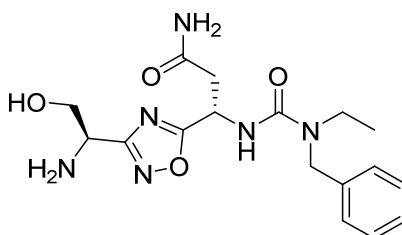
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32. The compound of claim 1, wherein the compound is



or a pharmaceutically acceptable salt thereof.

33. The compound of claim 1, wherein the compound is



5

or a pharmaceutically acceptable salt thereof.

34. A pharmaceutical composition comprising a compound of any one of claims 1 to 33, and a pharmaceutically acceptable carrier.

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35. Use of a compound of any one of claims 1 to 33 in the manufacture of a medicament for the treatment of cancer.

36. The use of claim 35, wherein the cancer is selected from lung cancer, breast cancer, colon cancer, renal cancer, bladder cancer, thyroid cancer, prostate cancer, osteosarcoma and Hodgkin's lymphoma.

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37. Use of a compound of any one of claims 1 to 33, in the manufacture of a medicament for the treatment of bacterial infection, a viral infection, a fungal infection, or an immunological condition.

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