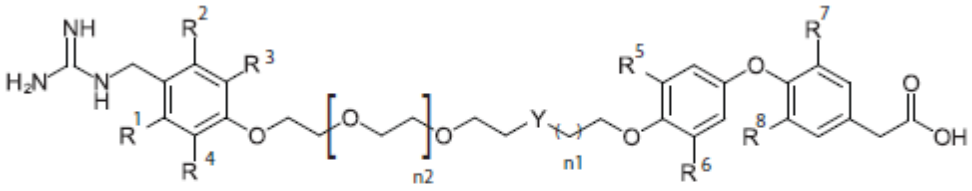
CLAIMS

1. A composition comprising:

a general formula:



or a salt thereof;

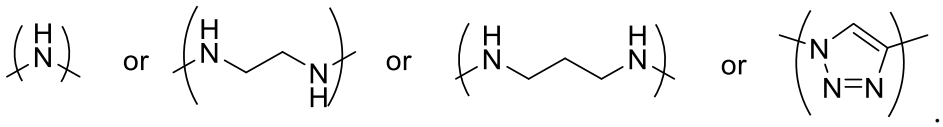
wherein R1, R2, R3, and R4 are each independently selected from the group consisting of hydrogen, iodine, fluorine, bromine, a methoxy group, a nitro group, an amine group, and a nitrile group;

wherein R5, R6, R7, and R8 are each independently selected from the group consisting of hydrogen, iodine, and an alkane group; and

$n_1 \geq 0$;

$n_2 \geq 1$; and

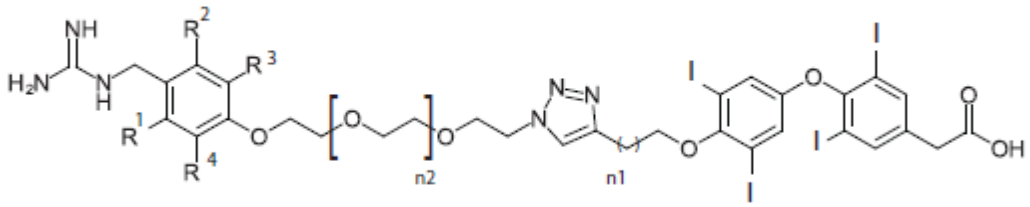
Y =



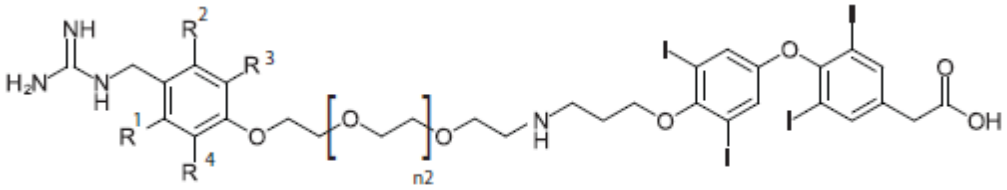
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2. The composition of claim 1, wherein at least one of R5, R6, R7, and R8 are selected from the group consisting of an isopropyl group and a tert-butyl group.

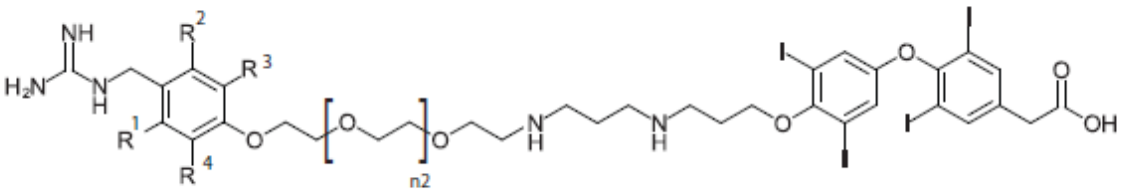
3. The composition of claim 1, wherein the composition has a chemical formula selected from the group consisting of:



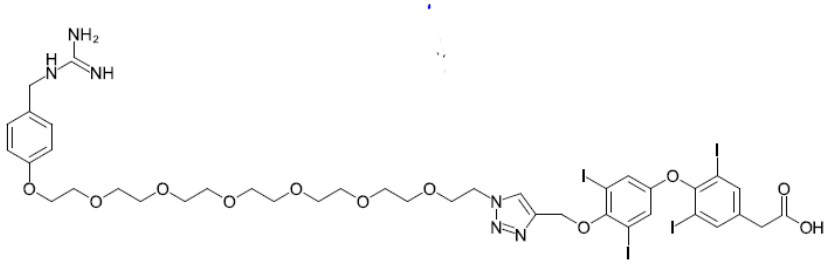
,



, and



4. The composition of claim 1, wherein the composition has a chemical formula given by

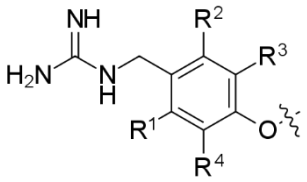


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5. The composition of Claim 1,
wherein the composition includes N-benzyl guanidine.

6. The composition of claim 1, wherein the composition includes triiodothyroacetic acid, or tetraiodothyroacetic acid.

7. The composition of claim 1,



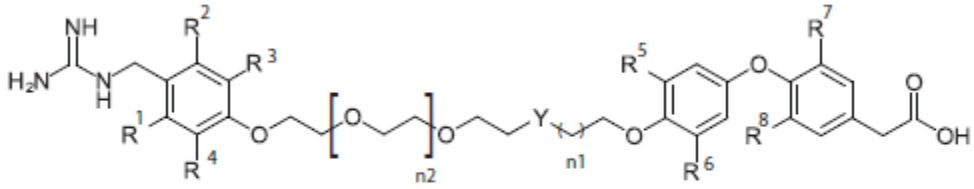
wherein at least one of R1, R2, R3, and R4 is selected from the group consisting of Iodine-123, Iodine-131, and Flourine-18.

8. The composition of claim 7, wherein the composition is used for imaging a neuroendocrine tumor.

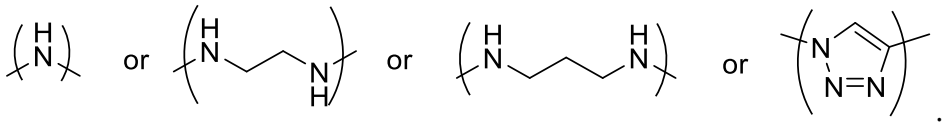
9. The composition of claim 7, wherein the composition is used for the treatment of a neuroendocrine tumor by administration in a therapeutic dose.

10. The composition of claim 7, wherein the composition is used for simultaneous imaging and treatment of a neuroendocrine tumor.

11. A method for dual targeting of tumor cells, comprising:
administering a composition comprising:
a compound of a general formula:



or a salt thereof;
wherein R1, R2, R3, and R4 are each independently selected from the group consisting of hydrogen, iodine, fluorine, bromine, a methoxy group, a nitro group, an amine group, and a nitrile group;
wherein R5, R6, R7, and R8 are each independently selected from the group consisting of hydrogen, iodine, and an alkane group; and
$n_1 \geq 0$;
$n_2 \geq 1$; and
Y =



.

12. The method of claim 11, wherein the compound includes N-benzyl guanidine.

13. The method of claim 11, wherein the compound comprises a thyrointegrin αvβ3 receptor antagonist selected from the group consisting of triiodothyroacetic acid and tetraiodothyroacetic acid.

14. A composition comprising:
N-benzyl guanidine; and
tetraiodothyroacetic;

wherein the N-benzyl guanidine and the tetraiodothyroacetic are conjugated by polyethylene glycol.

15. The composition of claim 14, wherein the composition is used for imaging a neuroendocrine tumor; treatment of a neuroendocrine tumor by administration in a therapeutic dose; and/or simultaneous imaging and treatment of a neuroendocrine tumor.