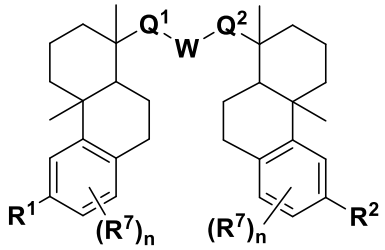
WHAT IS CLAIMED IS:

1. A compound of Formula I



(I)

or a pharmaceutically acceptable salt, solvate, or stereoisomeric form thereof, wherein

each of **Q**^{1} and **Q**^{2} is independently –CH_2–, –C(O)–, –C(H)(OH)–, –$C(OH)_2$–;

W is –N(H)– or –O–; or **W** is –CH_2– when **Q**^{2} is –C(O)–;

R^{1} is independently–OH, –NH_2, alkyl, or –OP(O)(O**R**^{6})$_2$;

R^{2} is independently –CH_2NH_2, **R**^{3}, **R**^{4}, **R**^{5}, or –O–**R**^{5};

wherein at least one of **R**^{1} or **R**^{2} is –OH or –NH_2;

R^{3} is –N(**R**^{6})$_2$;

R^{4} is –**X**–**Y**–**Z**;

X is selected from the group consisting of –O– and –N(H)–;

Y is selected from the group consisting of alkylene, substituted alkylene, heteroalkylene, and substituted heteroalkylene;

Z is selected from the group consisting of –OH and –NH_2;

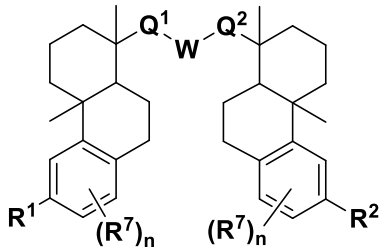
R^{5} is alkyl, heterocycloalkyl, or substituted heterocycloalkyl, wherein each heterocycloalkyl or substituted heterocycloalkyl comprises one, two, or three heteroatoms selected from nitrogen and oxygen, and includes at least one –OH and –CH_2OH, or at least one primary or secondary nitrogen;

each **R**^{6} is, independently in each instance, hydrogen, an amino acid residue, an *N*-alkyl amino acid residue, a peptide, or alkyl;

each **R**^{7} is independently halo, $C_{1\text{-}6}$ alkyl, $C_{1\text{-}6}$ alkoxy, –CN, O-glucose, O-amino acid residue, or O-PEG$_{\mathbf{n}}$, wherein each **n** is an integer from zero to three; and

each **R**^{11} and **R**^{12} are independently hydrogen, alkyl, or aryl.

2. The compound of claim 1, according to Formula I



(I)

or a pharmaceutically acceptable salt, solvate, or stereoisomeric form thereof, wherein

each of **Q**^{1} and **Q**^{2} is independently –CH_2–, –C(O)–, –C(H)(OH)–, or –$C(OH)_2$–;

W is –N(H)– or –O–; or **W** is –CH_2– when **Q**^{2} is –C(O)–;

R^{1} is independently –OH, –NH_2, alkyl, or –OP(O)(O**R**^{6})$_2$;

R^{2} is independently –CH_2NH_2, **R**^{3}, **R**^{4}, **R**^{5}, or –O–**R**^{5};

R^{3} is –N(**R**^{6})$_2$;

R^{4} is –**X**–**Y**–**Z**;

X is selected from the group consisting of –O– and –N(H)–;

Y is selected from the group consisting of alkylene, substituted alkylene, heteroalkylene, and substituted heteroalkylene;

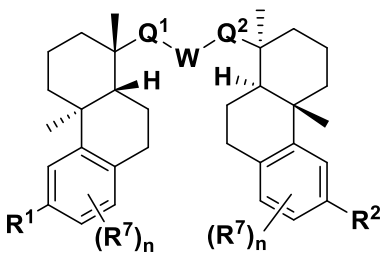
Z is selected from the group consisting of –OH and –NH_2;

R^{5} is alkyl, heterocycloalkyl, or substituted heterocycloalkyl, wherein each heterocycloalkyl or substituted heterocycloalkyl comprises one, two, or three heteroatoms selected from nitrogen and oxygen, and includes at least one –OH and –CH_2OH, or at least one primary or secondary nitrogen;

each **R**^{6} is, independently in each instance, hydrogen, an amino acid residue, an *N*-alkyl amino acid residue, a peptide, or alkyl; and

each **R**^{7} is independently halo, $C_{1\text{-}6}$ alkyl, $C_{1\text{-}6}$ alkoxy, –CN, O-glucose, O-amino acid residue, or O-PEG$_{\mathbf{n}}$, wherein each **n** is an integer from zero to three.

3. The compound of claim 1, according to Formula Ia



(Ia)

or a pharmaceutically acceptable salt, solvate, or stereoisomeric form thereof.

4. The compound of claim 1, wherein $\mathbf{Q^1}$ is $–CH_2–$ and $\mathbf{Q^2}$ is –C(O)–.

5. The compound of claim 1, wherein $\mathbf{Q^1}$ is –C(H)(OH)– and $\mathbf{Q^2}$ is –C(O)–.

6. The compound of claim 1, wherein $\mathbf{Q^1}$ is –C(O)– and $\mathbf{Q^2}$ is –C(O)–.

7. The compound of claim 1, wherein $\mathbf{Q^1}$ is –C(O)– and $\mathbf{Q^2}$ is $\mathbf{–}CH_2–$.

8. The compound of claim 1, wherein $\mathbf{Q^1}$ is –C(O)– and $\mathbf{Q^2}$ is –C(H)(OH)–.

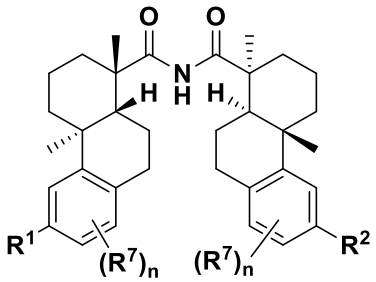
9. The compound of claim 1, wherein **W** is $\mathbf{–}CH_2\mathbf{–}$ when Q^2 is -C(O)-.

10. The compound of claim 1, wherein **W** is **–**O**–**.

11. The compound of claim 1, wherein **W** is **–**NH**–**.

12. The compound of claim 1, wherein $\mathbf{R^1}$ is –OH and $\mathbf{R^2}$ is $\mathbf{R^3}$, $\mathbf{R^4}$, $\mathbf{R^5}$, or –O–$\mathbf{R^5}$.

13. The compound of claim 1, according to Formula Ib



(Ib)

or a pharmaceutically acceptable salt, solvate, or stereoisomeric form thereof.

14. The compound of claim 1, wherein $\mathbf{R^1}$ is –OH.

15. The compound of claim 1, wherein $\mathbf{R^2}$ is $–O–(CH_2)_n–\mathbf{Z}$ and **n** is an integer from one to four.

16. The compound of claim 1, wherein $\mathbf{R^2}$ is –N(H)C(O)–$(CH_2)_n$–NH_2 and **n** is an integer from one to four.

17. The compound of claim 1, wherein $\mathbf{R^2}$ is –N(H)C(O)–(C**RR**)$_n$–NH_2 wherein each **R** is hydrogen, –OH or –CH_2OH; and **n** is an integer from one to four.

18. The compound of claim 1, wherein $\mathbf{R^2}$ is *N*-piperazinyl.

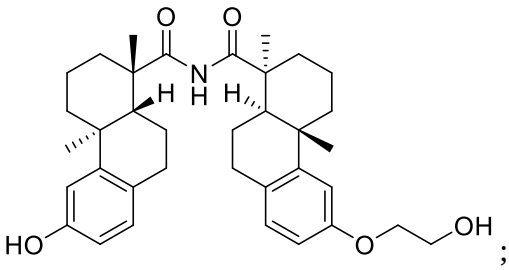
19. The compound of claim 1, wherein $\mathbf{R^2}$ is –N($\mathbf{R^6}$)$_2$.

20. The compound of claim 1, wherein $\mathbf{R^2}$ is *N*-serinyl.

21. The compound of claim 1, wherein $\mathbf{R^2}$ is *O*-glycosyl.

22. The compound of claim 1, wherein $\mathbf{R^1}$ is –OP(O)(O$\mathbf{R^6}$)(OH) and $\mathbf{R^2}$ is –NH_2.

23. The compound of claim 1, selected from the group consisting of



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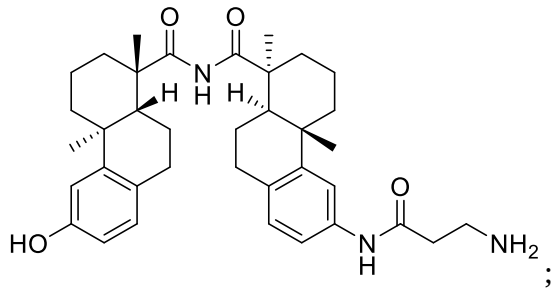

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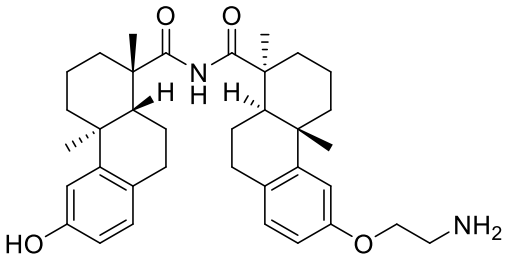

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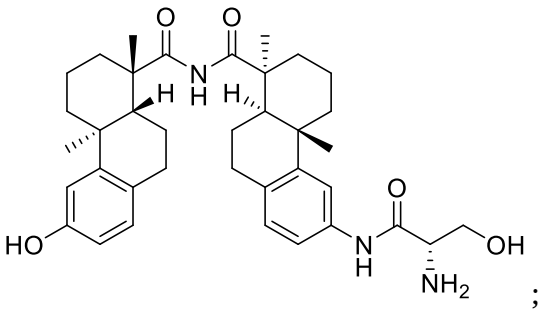

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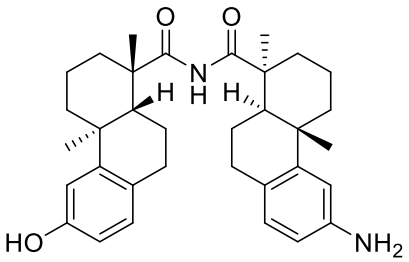
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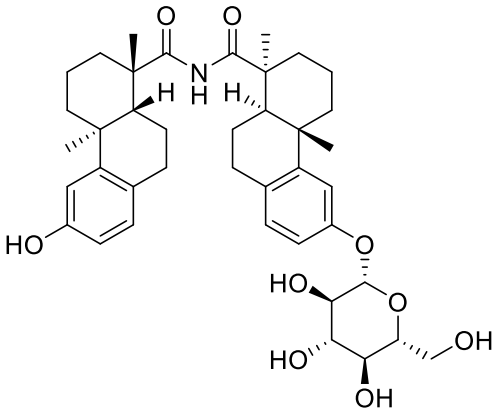
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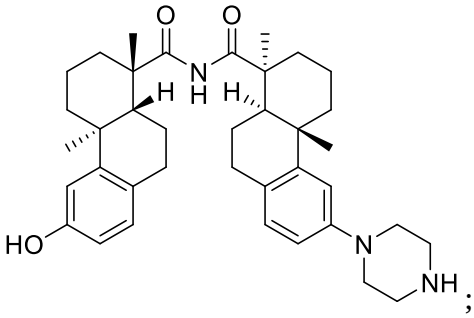
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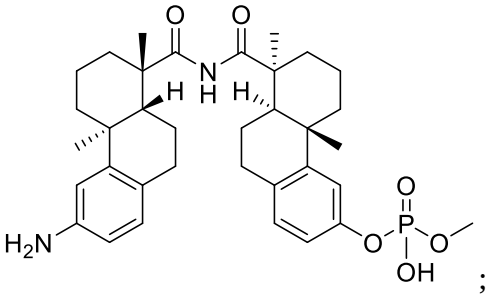
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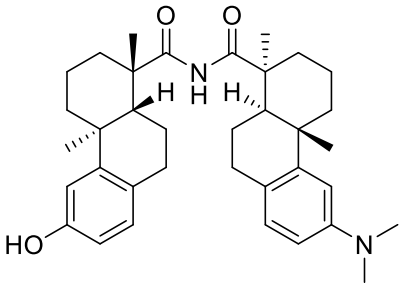
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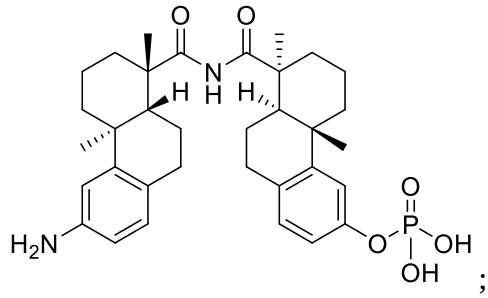
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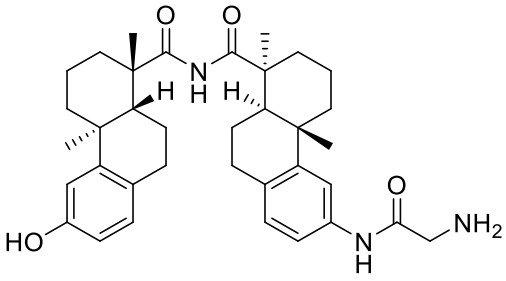
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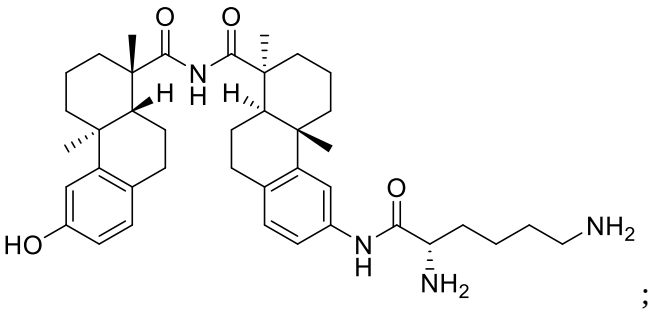
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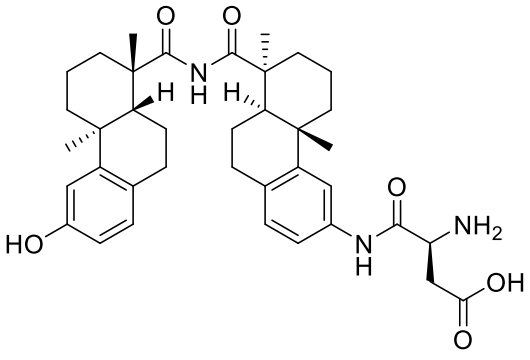
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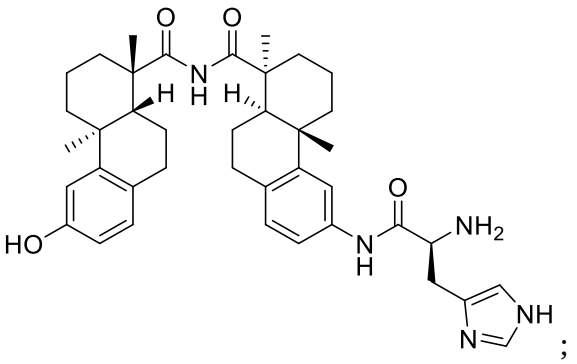
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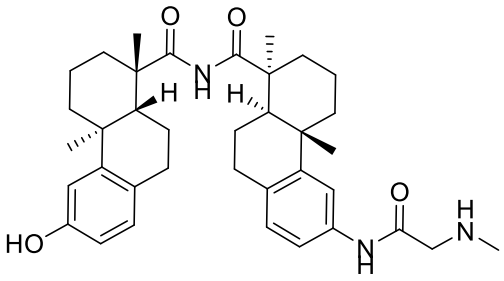
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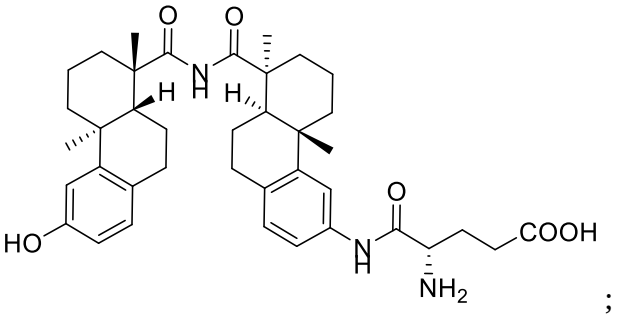
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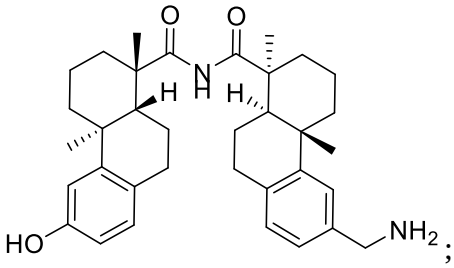
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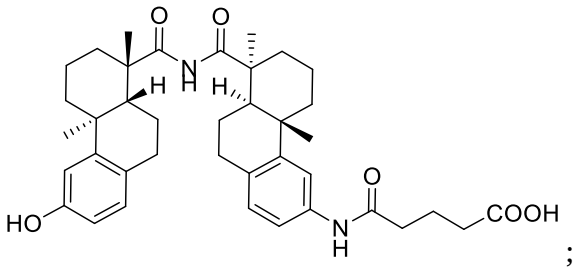
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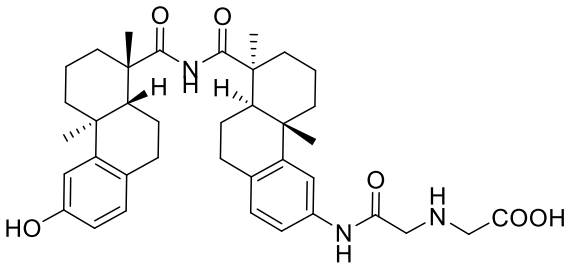
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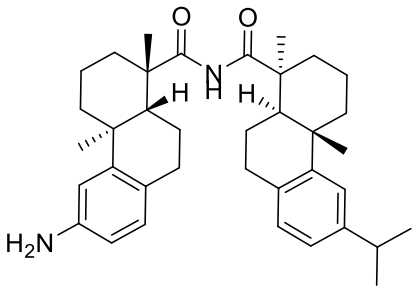
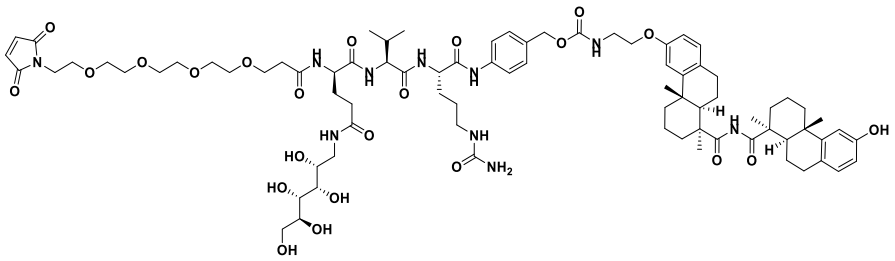

; or a pharmaceutically acceptable salt, solvate, or stereoisomeric form thereof.

24. A linker-payload comprising the compound of claim 1, bonded to a linker.

25. The linker-payload of claim 24, wherein the linker is bonded to an oxygen or a primary or secondary nitrogen of the compound of the preceding claims.

26. The linker-payload of claim 24, selected from the group consisting of



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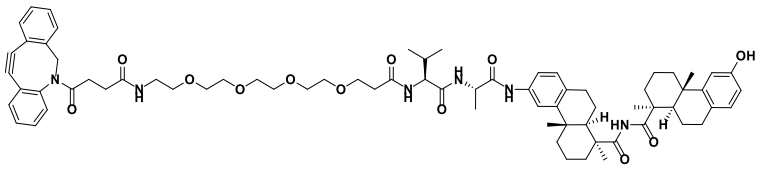

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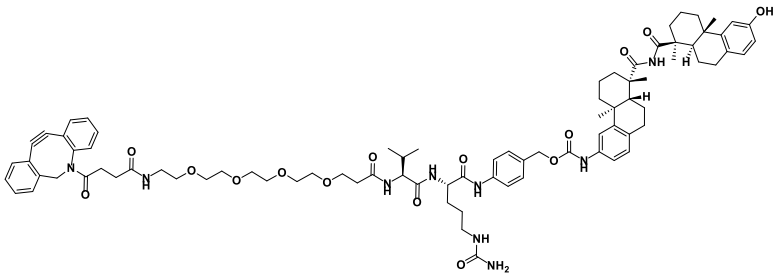

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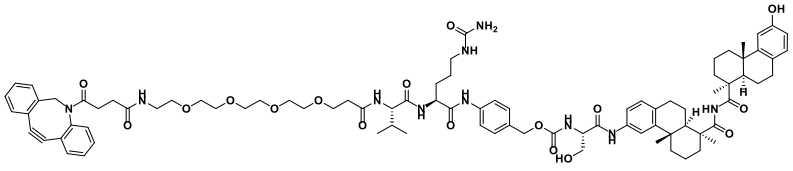

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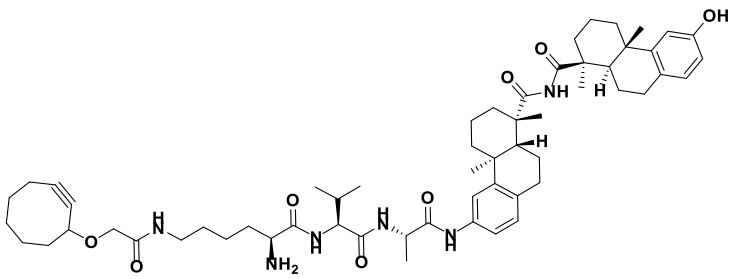

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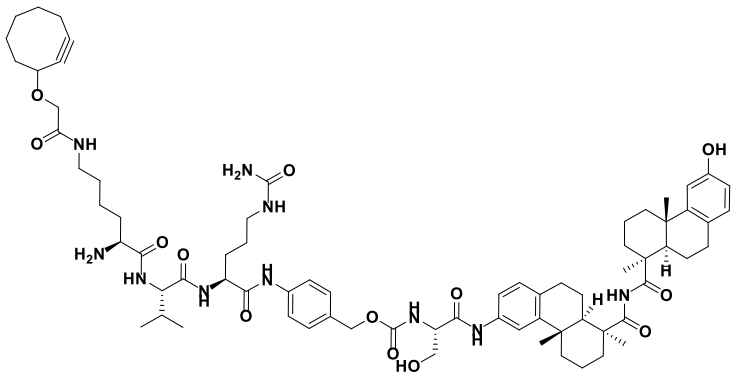

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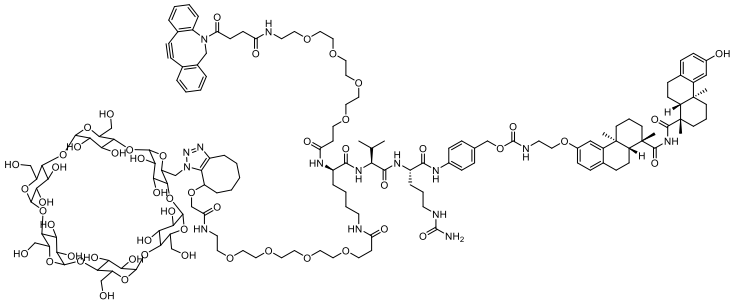

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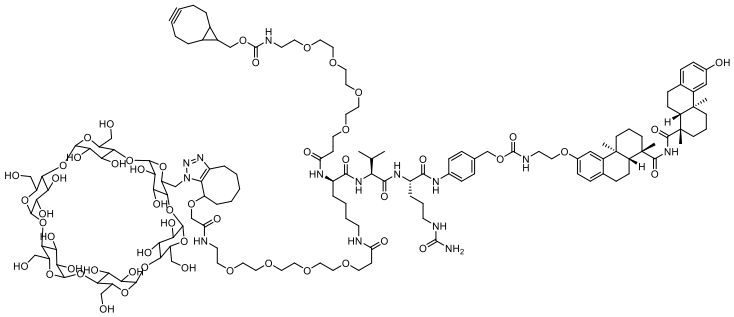

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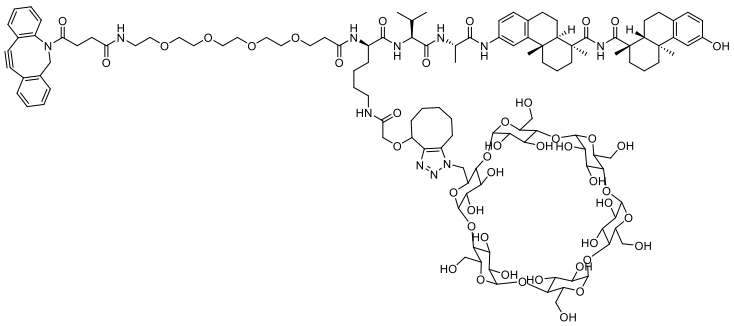

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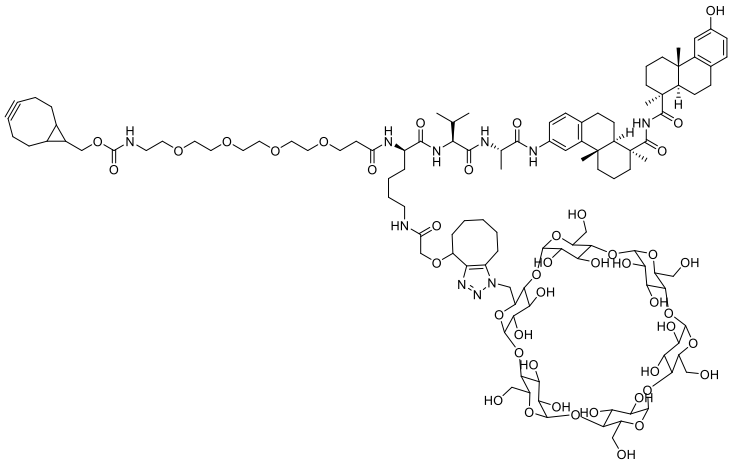

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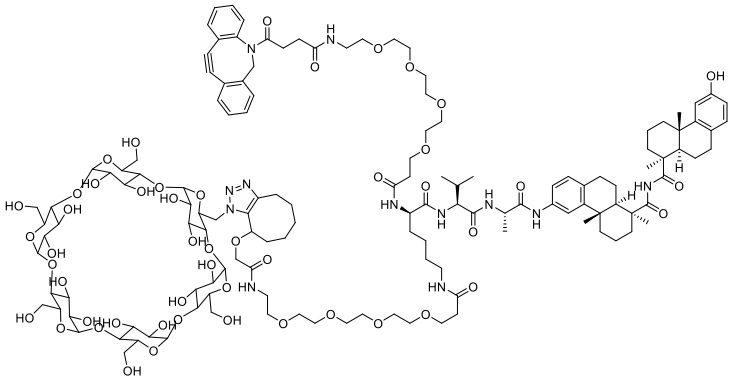

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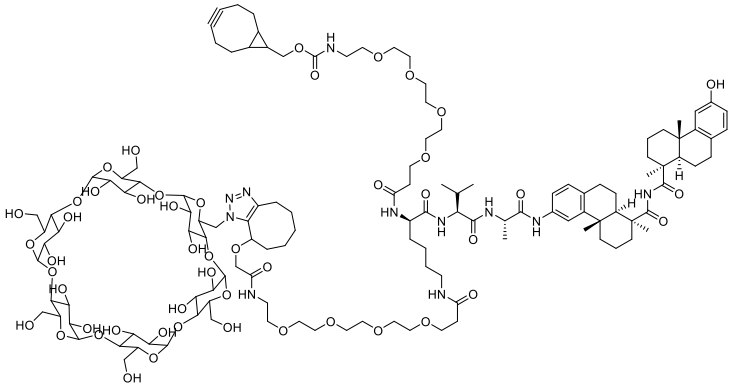

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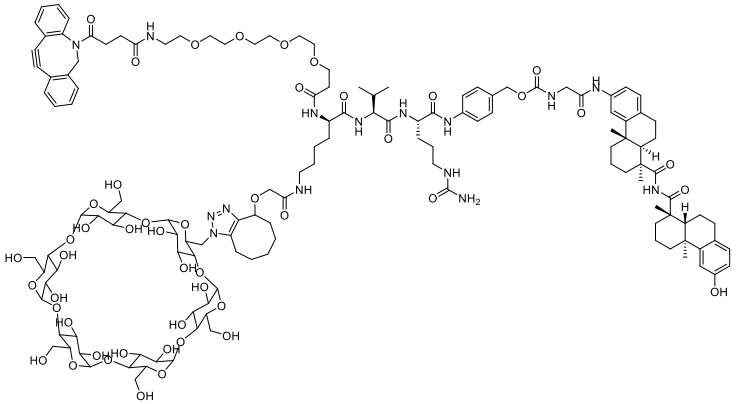

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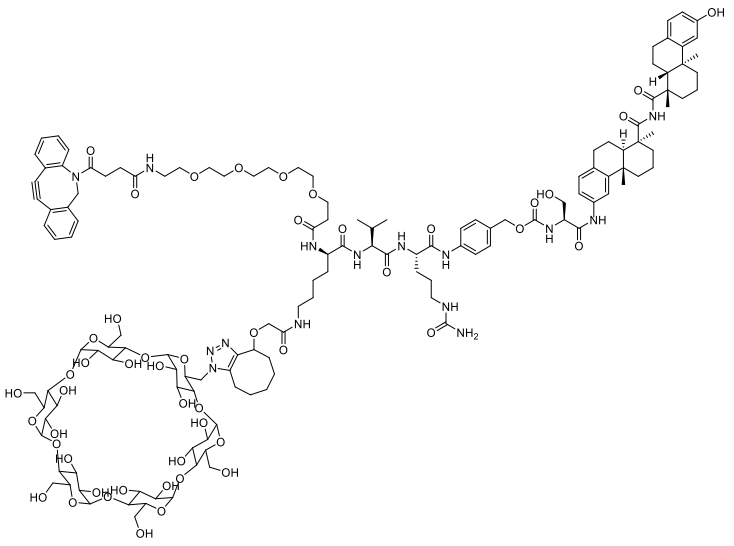

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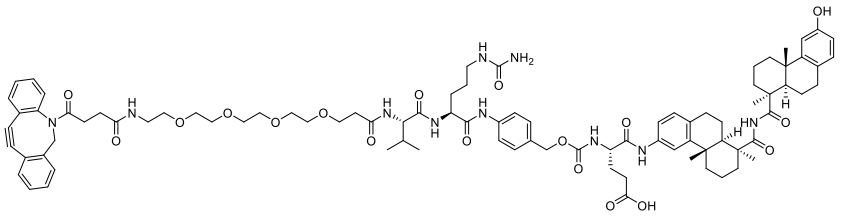

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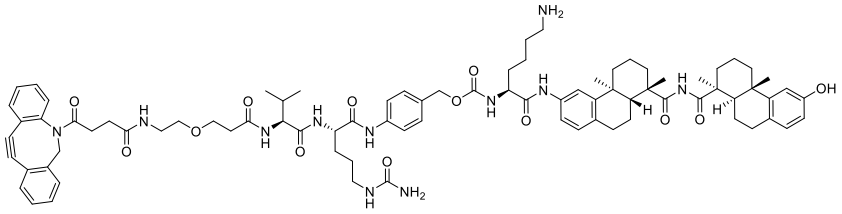

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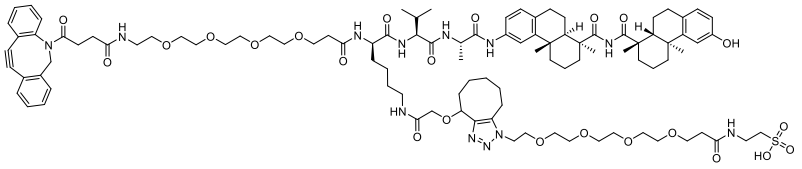

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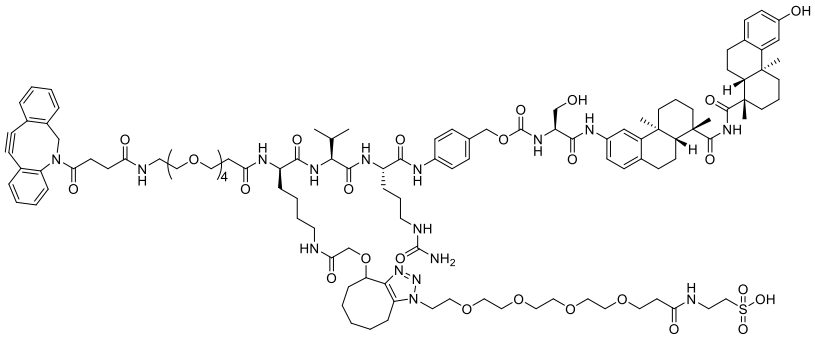

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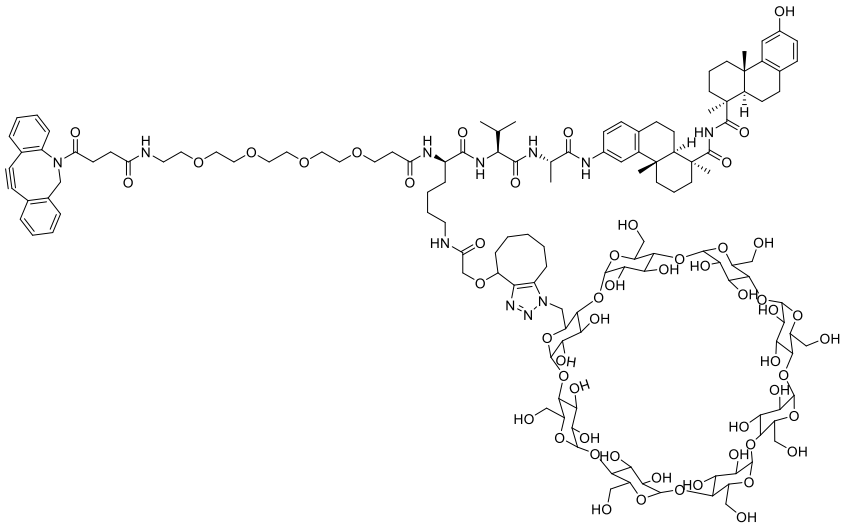

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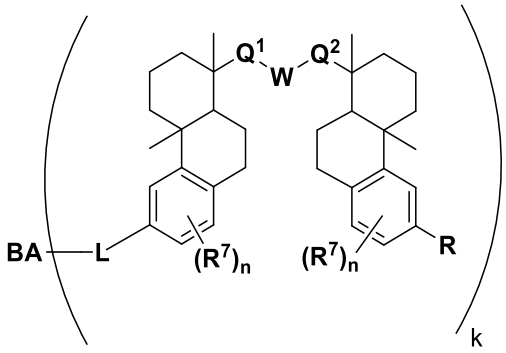
27. An antibody-drug conjugate comprising the compound of any one of claims 1-23 or 47-50 or linker-payload of any one of claims 24-26 or 51-54 bonded to an antibody or an antigen binding fragment thereof.

28. A compound of Formula **A**



(**A**)

or a pharmaceutically acceptable salt, or stereoisomeric form thereof, wherein

L is a linker or X-Y-Z, wherein X is –NH– or –O–; **Y** is an enzymatically cleavable moiety, a self-immolative group, an acid-labile moiety, PEGn, a sugar moiety, or an enhancement group; and **Z** is a binding agent linker (**BL**) wherein **Z** is covalently bound to **BA**;

BA is a binding agent;

k is an integer from one to thirty;

each of $\mathbf{Q^1}$ and $\mathbf{Q^2}$ is independently $–CH_2–$, –C(O)–, –C(H)(OH)–, or $–C(OH)_2–$;

W is–N(H)– or –O–; or **W** is $–CH_2–$ when $\mathbf{Q^2}$ is –C(O)–;

R is independently –OH, $C_{1\text{-}6}$alkyl, or –OP(O)(O$\mathbf{R^6}$)(OH);

each $\mathbf{R^6}$ is, independently in each instance, hydrogen, an amino acid residue, a peptide, or alkyl; and

each $\mathbf{R^7}$ is independently halo, $C_{1\text{-}6}$ alkyl, $C_{1\text{-}6}$ alkoxy, –CN, O-glucose, O-amino acid residue, or O-$PEG_{\mathbf{n}}$, wherein each **n** is an integer from zero to three.

29. A pharmaceutical composition comprising the compound of any one of claims 1-23, 28, 47-50 or 55-58, or the antibody-drug conjugate of claim 27, and a pharmaceutically acceptable excipient, carrier, or diluent.

30. Use of a composition comprising a compound of any one of claims 1-23, 28, 47-50 or 55-58, or the antibody-drug conjugate of claim 27 in the manufacture of a medicament for the treatment of dyslipidemia, a metabolic disease, inflammation, or a neurodegenerative disease in a subject.

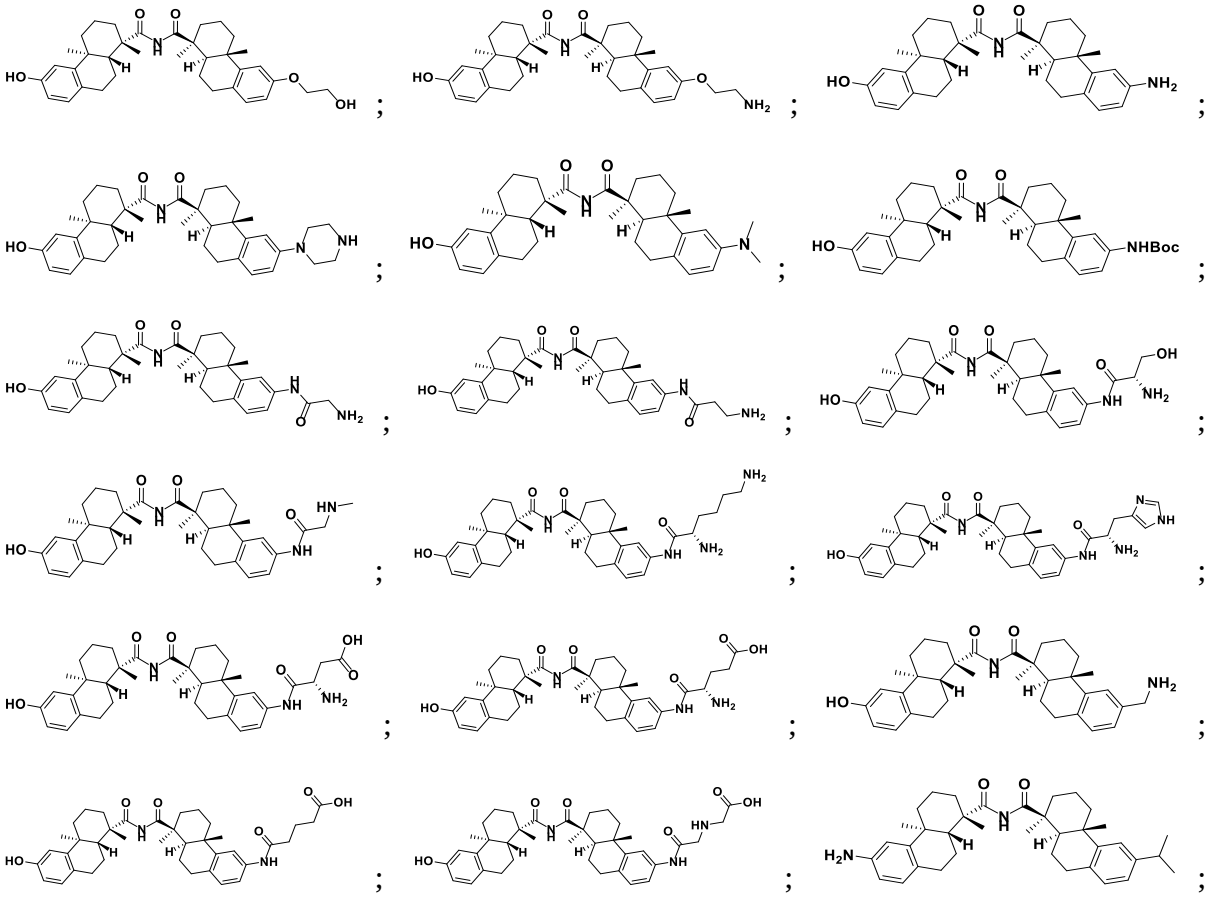
31. Use of a composition comprising a compound of any one of claims 1-23, 28, 47-50 or 55-58, or the antibody-drug conjugate of claim 27 in the manufacture of a medicament for the treatment of dyslipidemia in a subject.

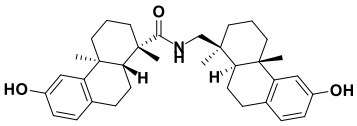
32. Use of a composition comprising a compound of any one of claims 1-23, 28, 47-50 or 55-58, or the antibody-drug conjugate of claim 27 in the manufacture of a medicament for the treatment of a metabolic disease in a subject.

33. Use of a composition comprising a compound of any one of claims 1-23, 28, 47-50 or 55-58, or the antibody-drug conjugate of claim 27 in the manufacture of a medicament for the treatment of inflammation in a subject.

34. Use of a composition comprising a compound of any one of claims 1-23, 28, 47-50 or 55-58, or the antibody-drug conjugate of claim 27 in the manufacture of a medicament for the treatment of a neurodegenerative disease in a subject.

35. The compound of claim 28 comprising **BA** linked via a linker **L** to a compound selected from the group consisting of

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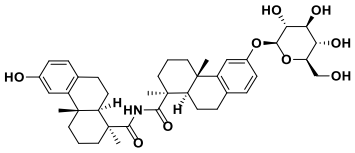
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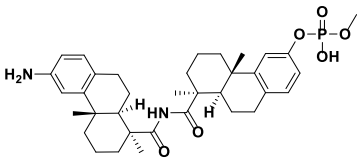
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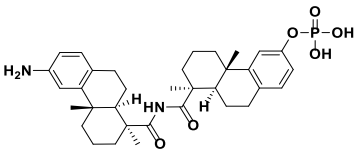
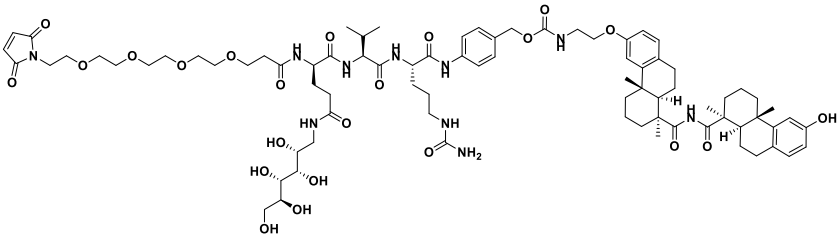

; or

a regioisomeric 1,3-cycloaddition product at **BL**, stereoisomeric form, or pharmaceutically acceptable salt thereof, wherein **k** is an integer from one to four.

36. The compound of claim 28, comprising **BA** linked to a compound selected from the group consisting of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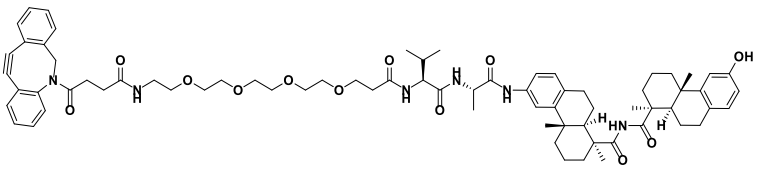
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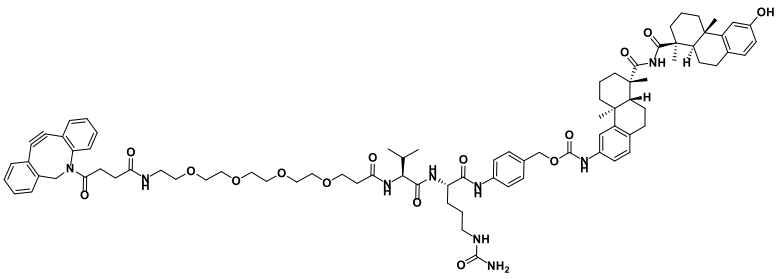
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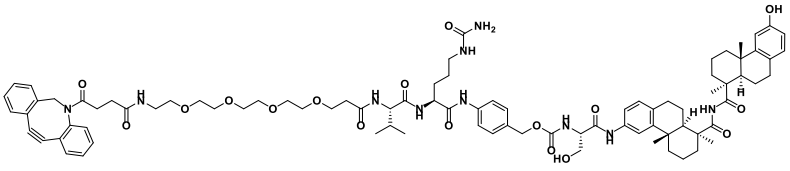
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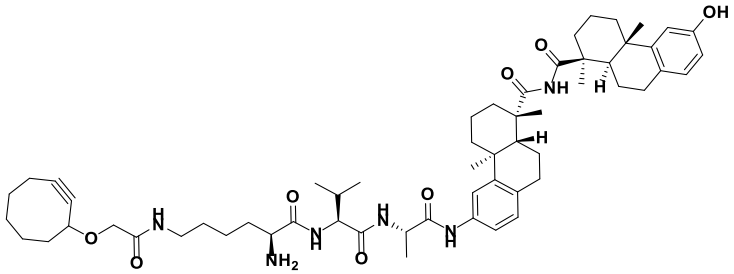

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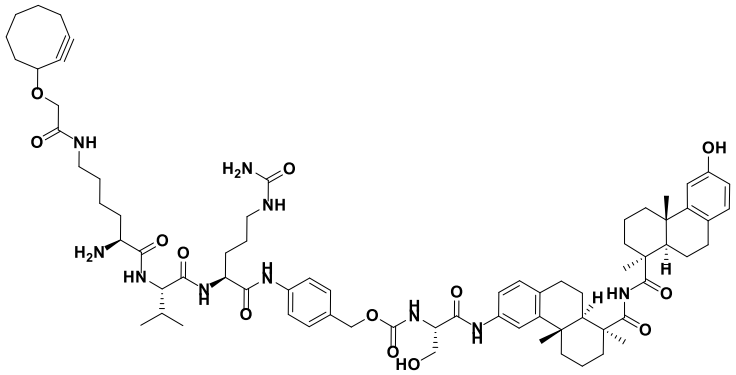

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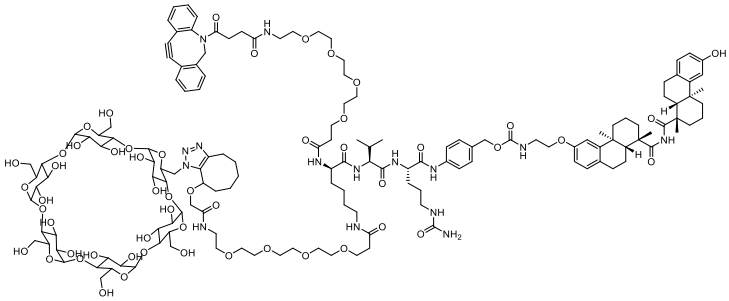

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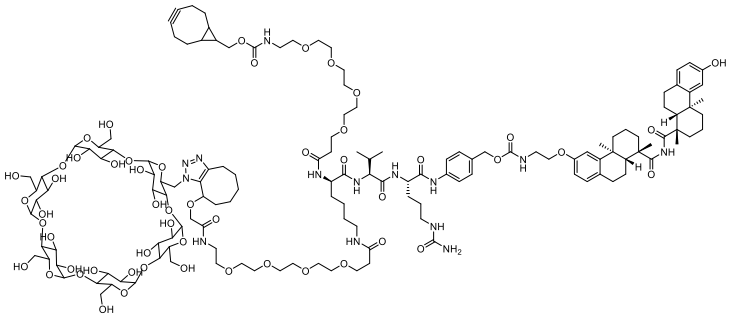

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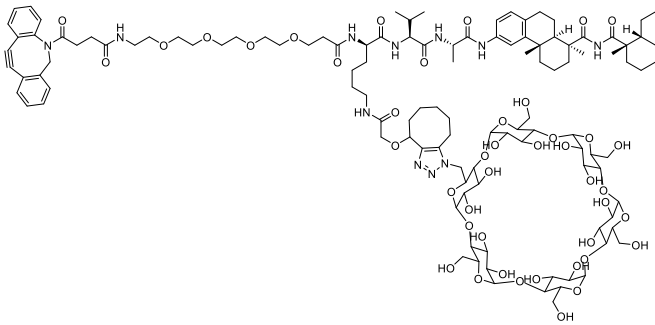

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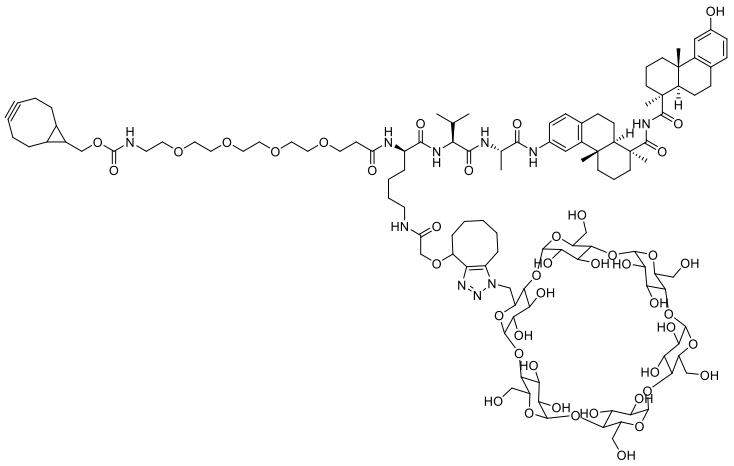

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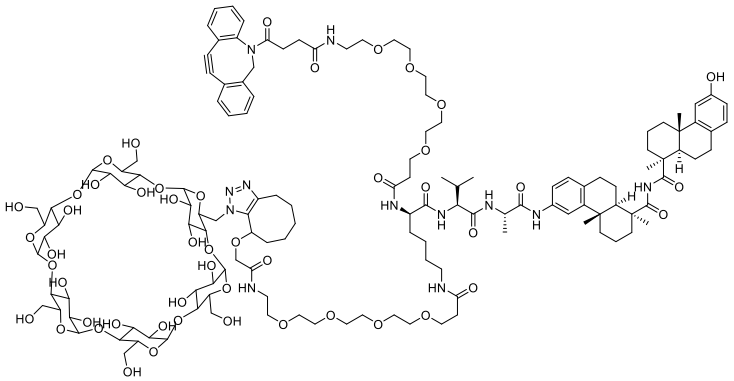

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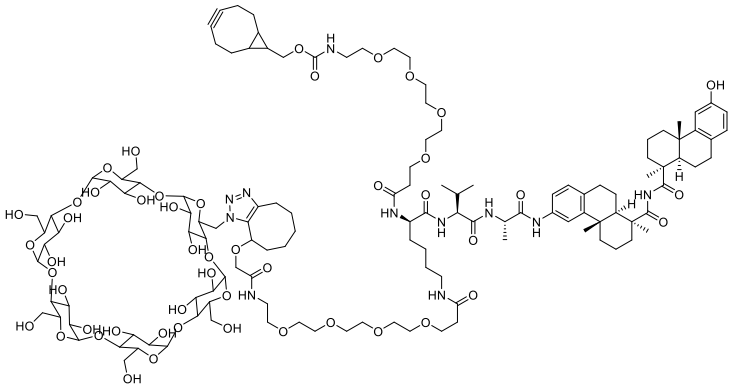

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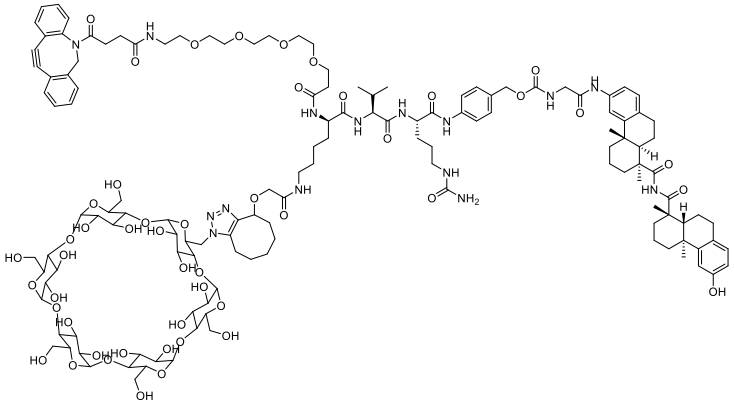

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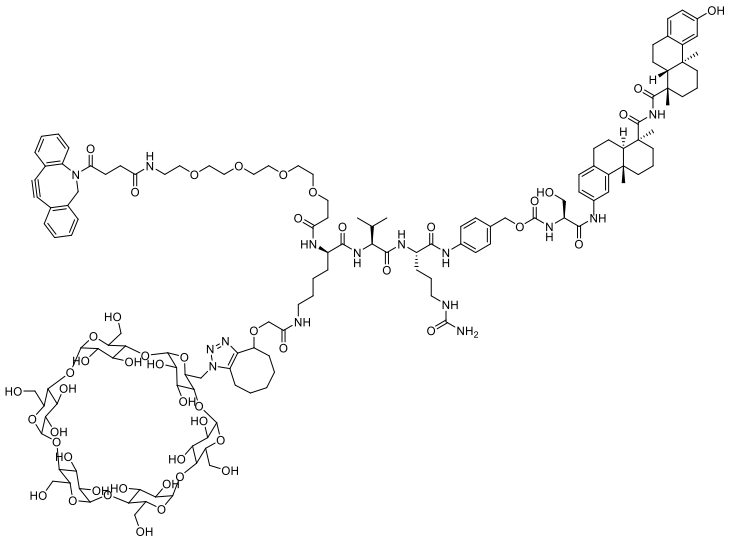

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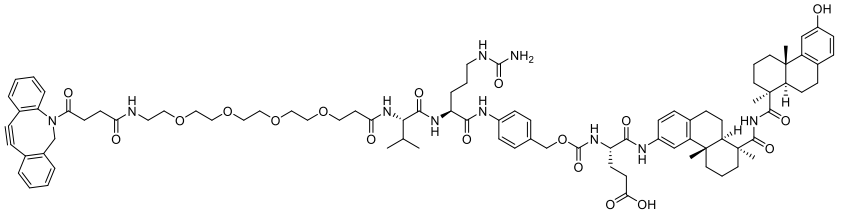

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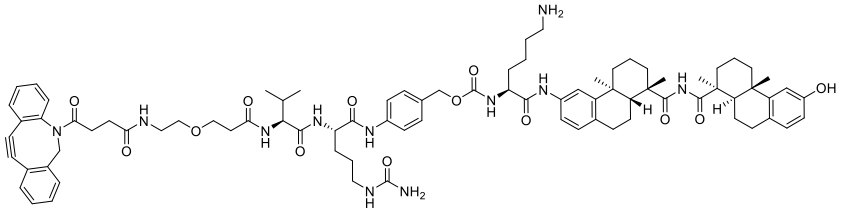

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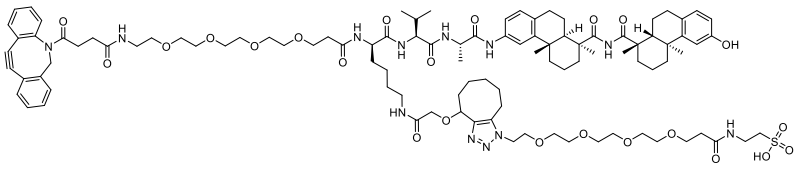

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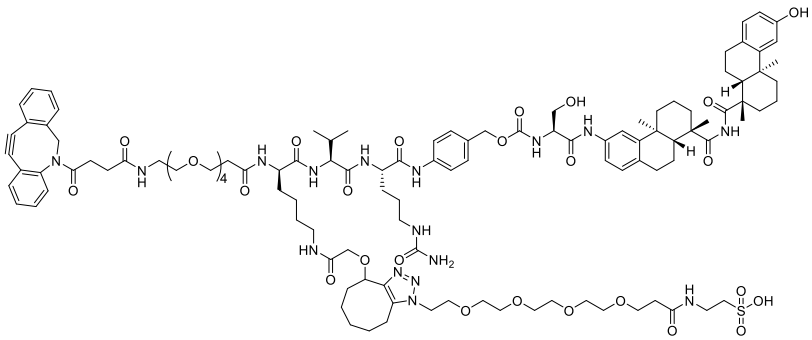

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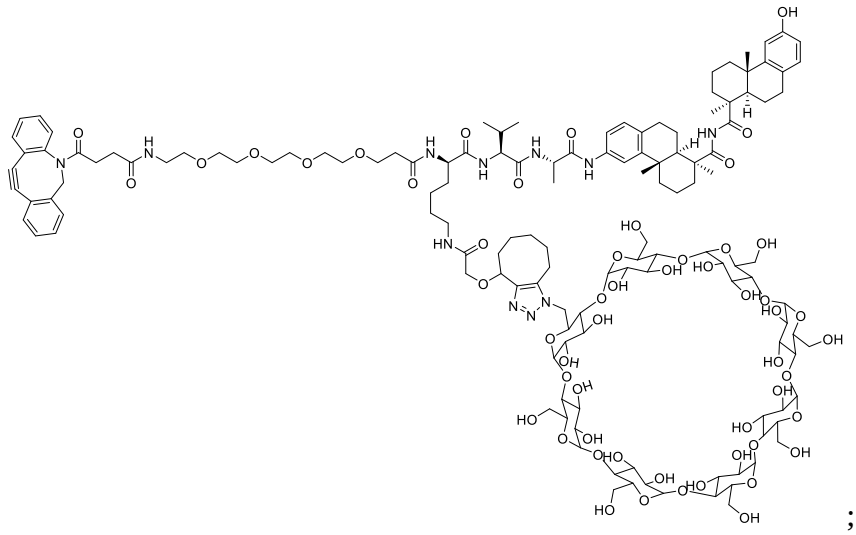
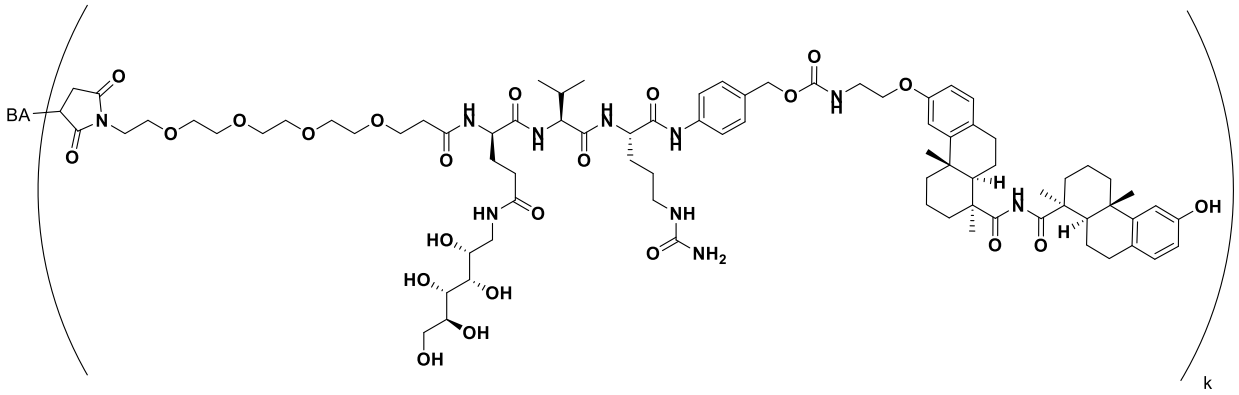


; or

a regioisomeric 1,3-cycloaddition product at **BL**, stereoisomeric form, or pharmaceutically acceptable salt thereof, wherein **k** is an integer from one to four.

37. The compound of claim 28, selected from the group consisting of



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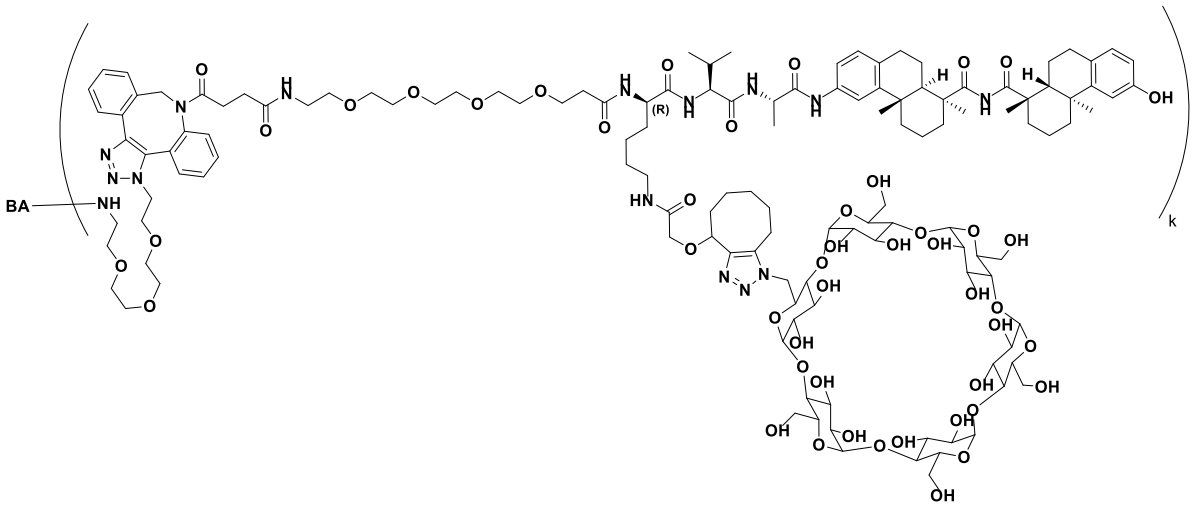

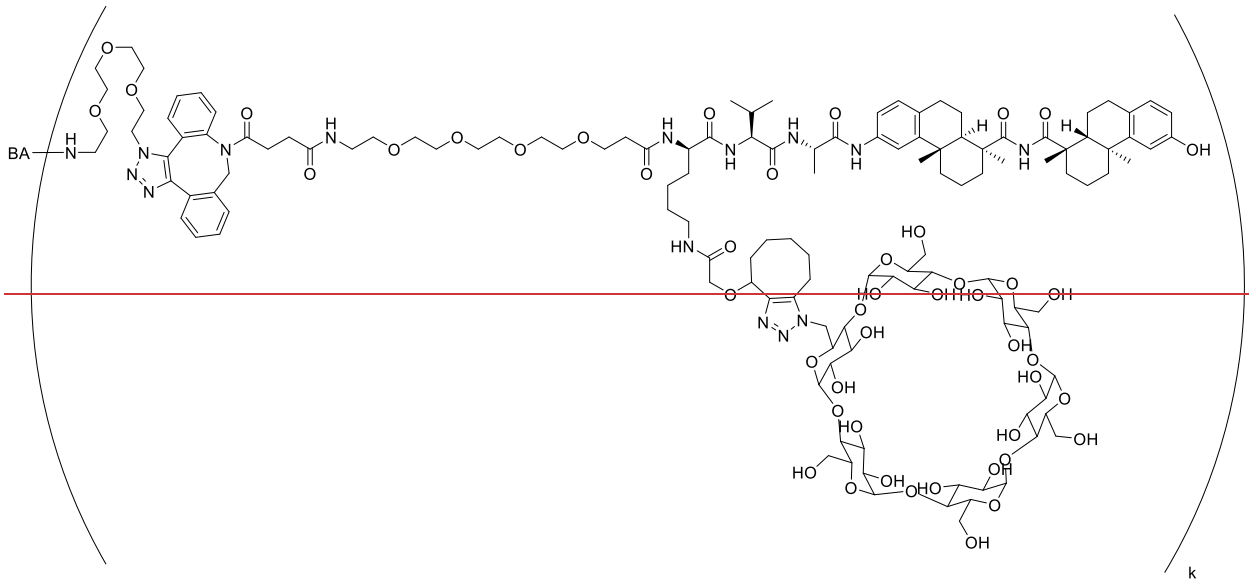
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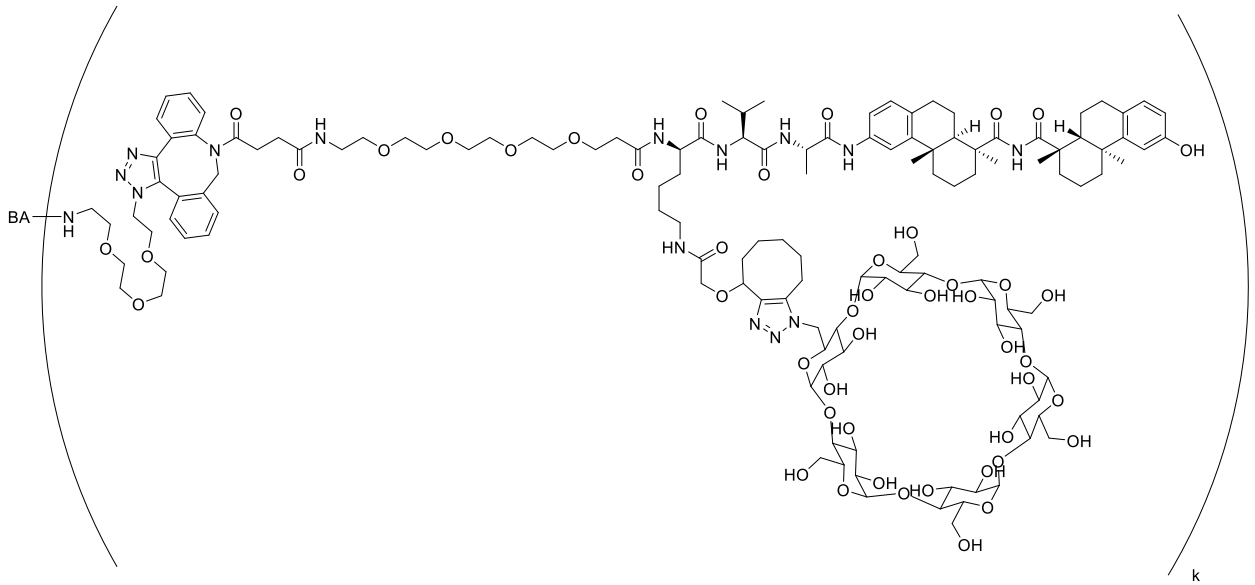
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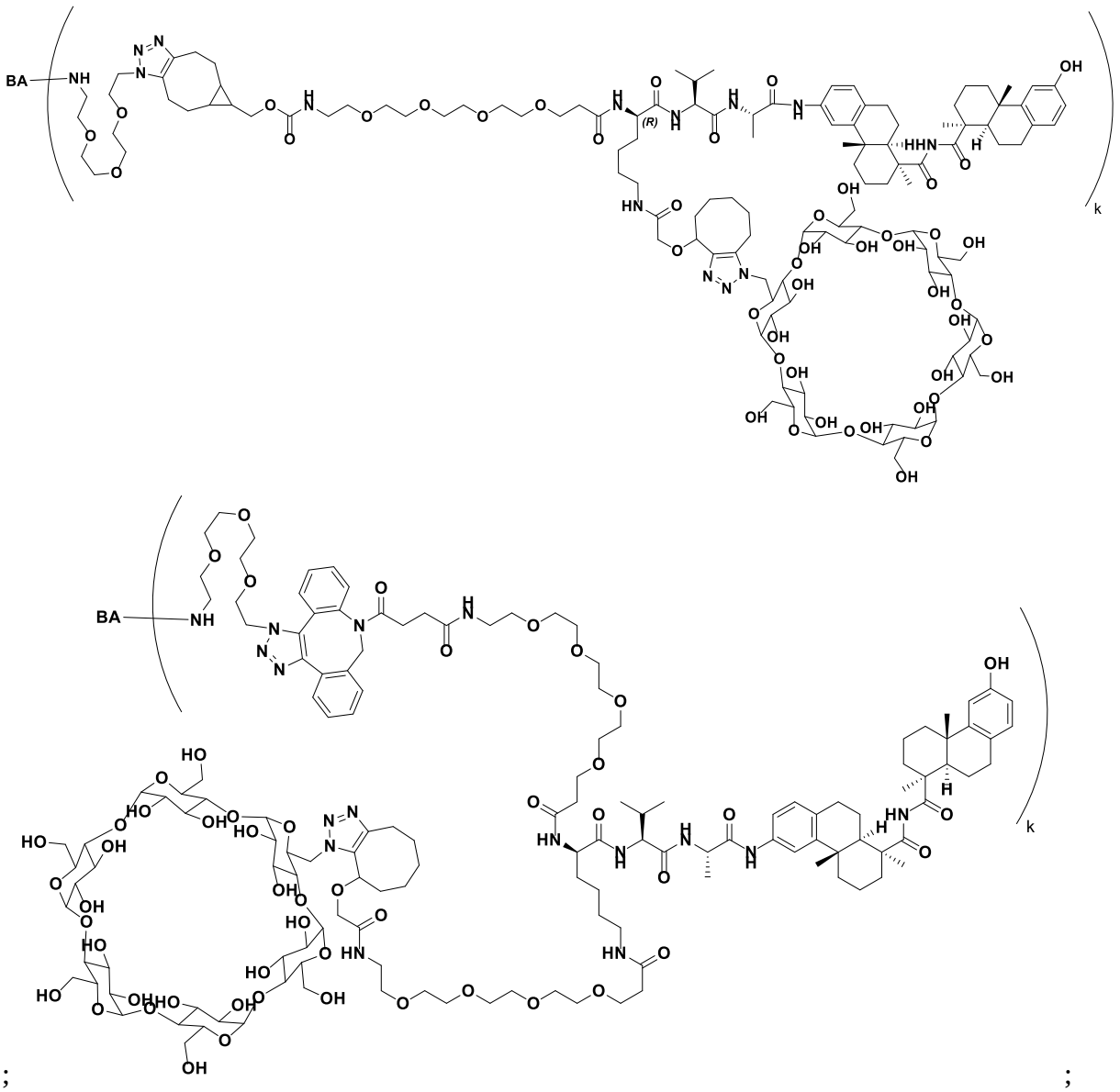

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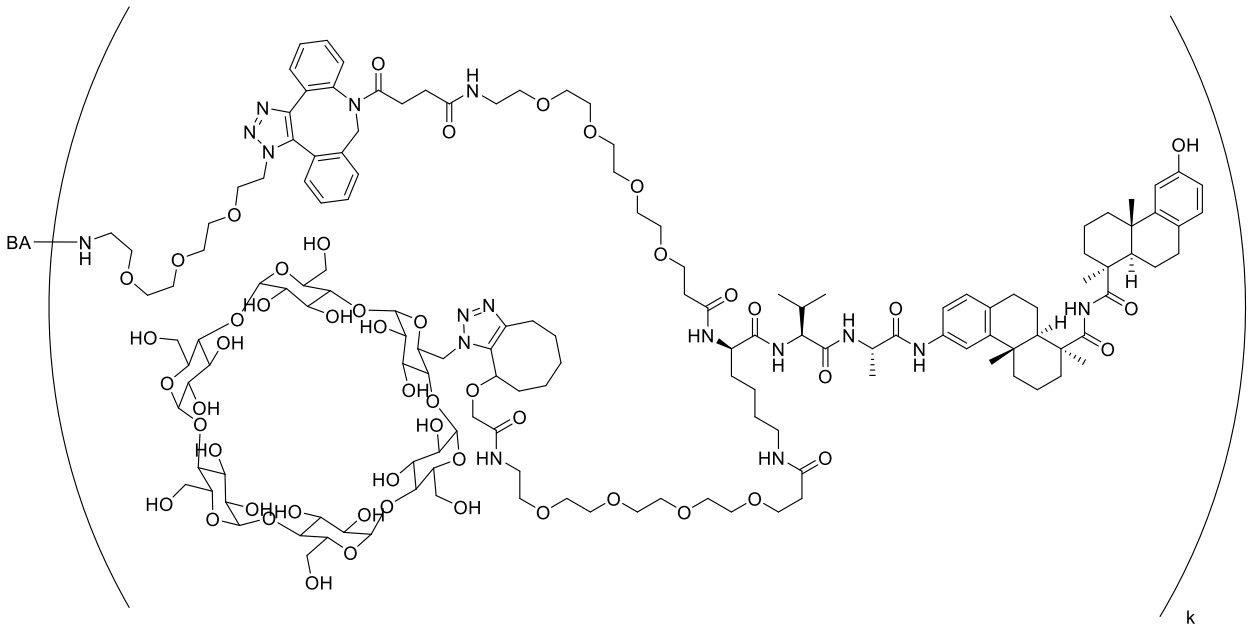
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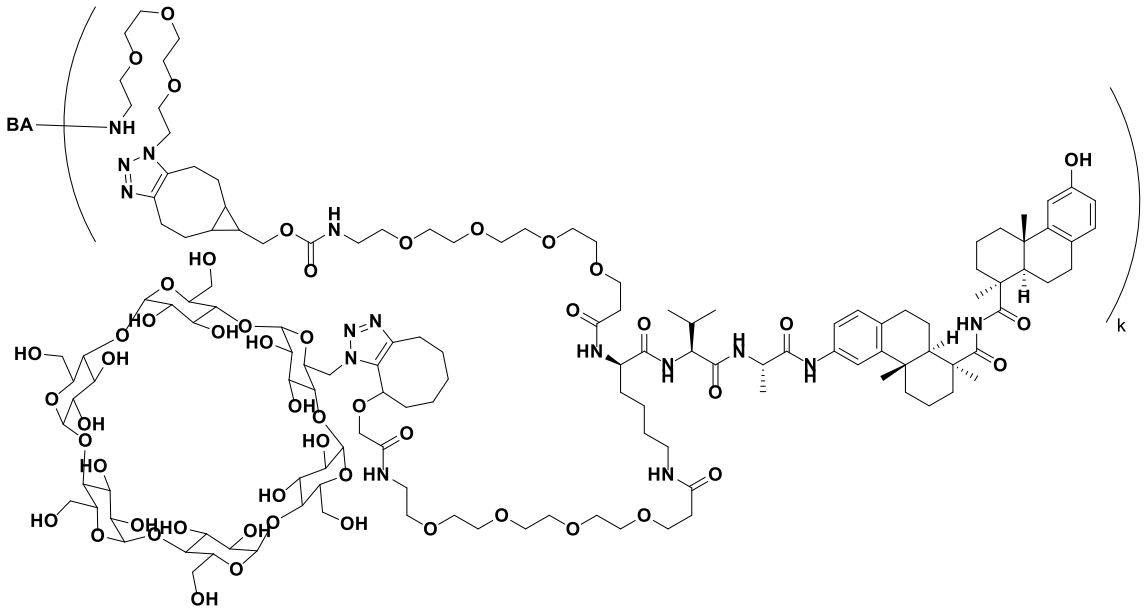
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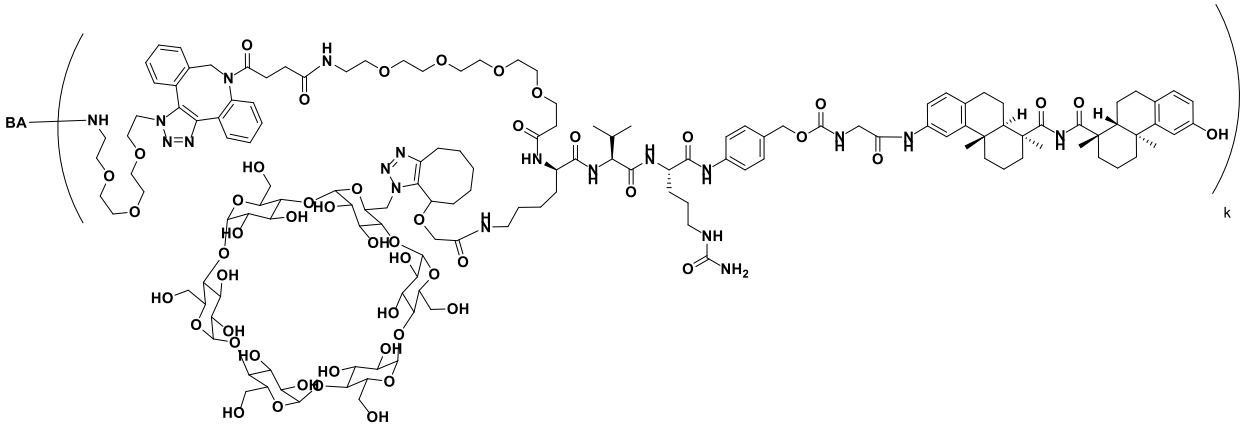
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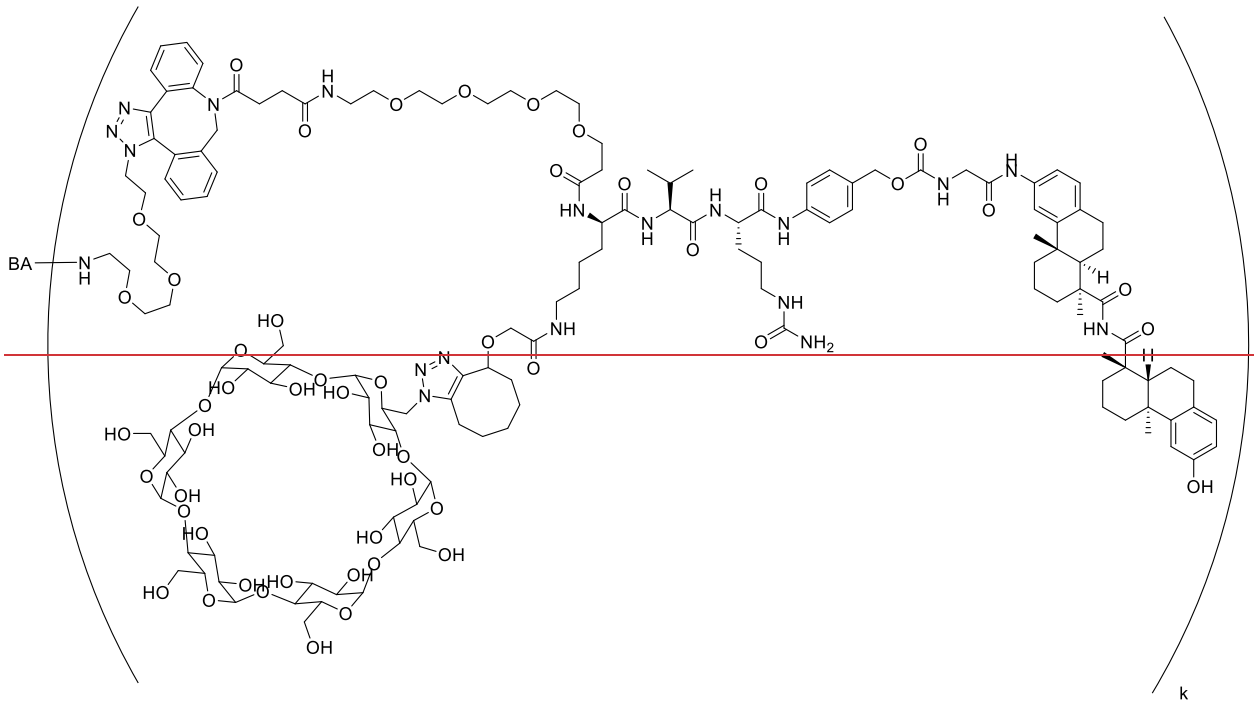
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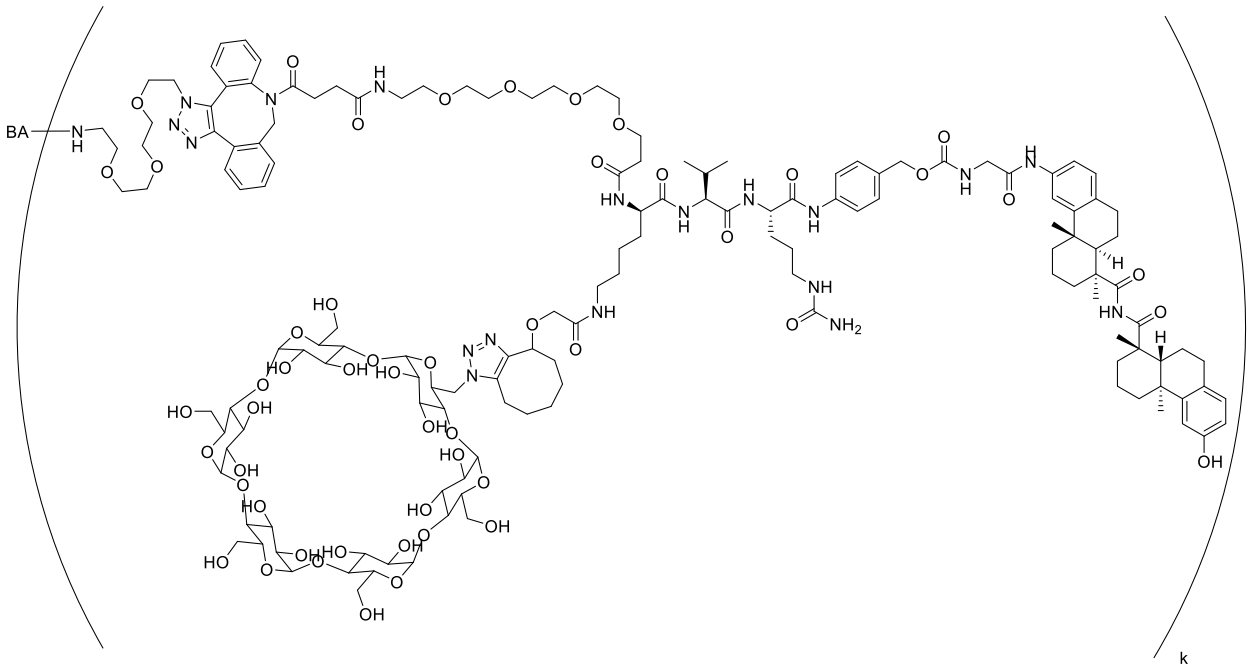

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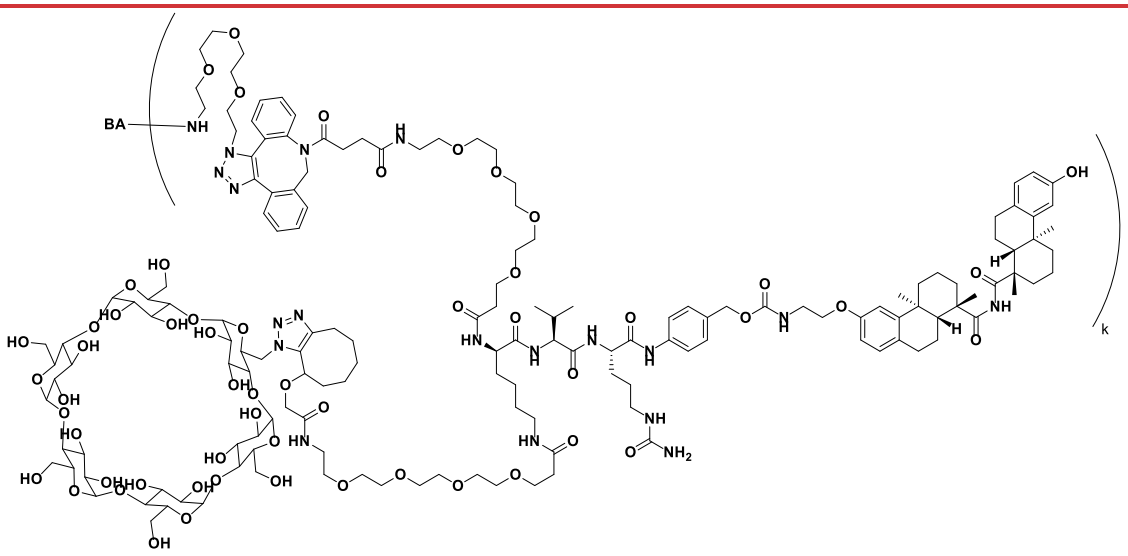

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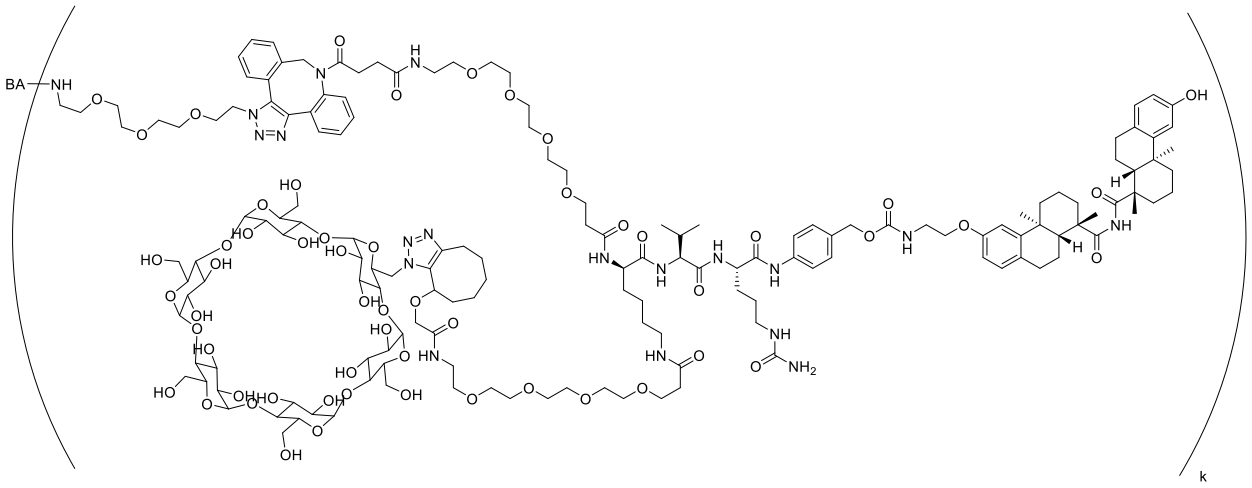

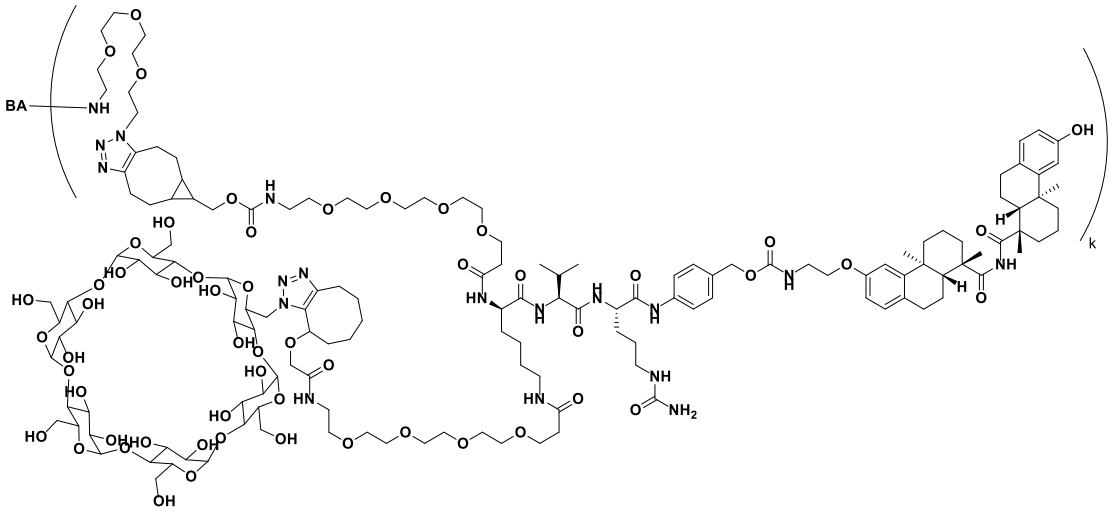

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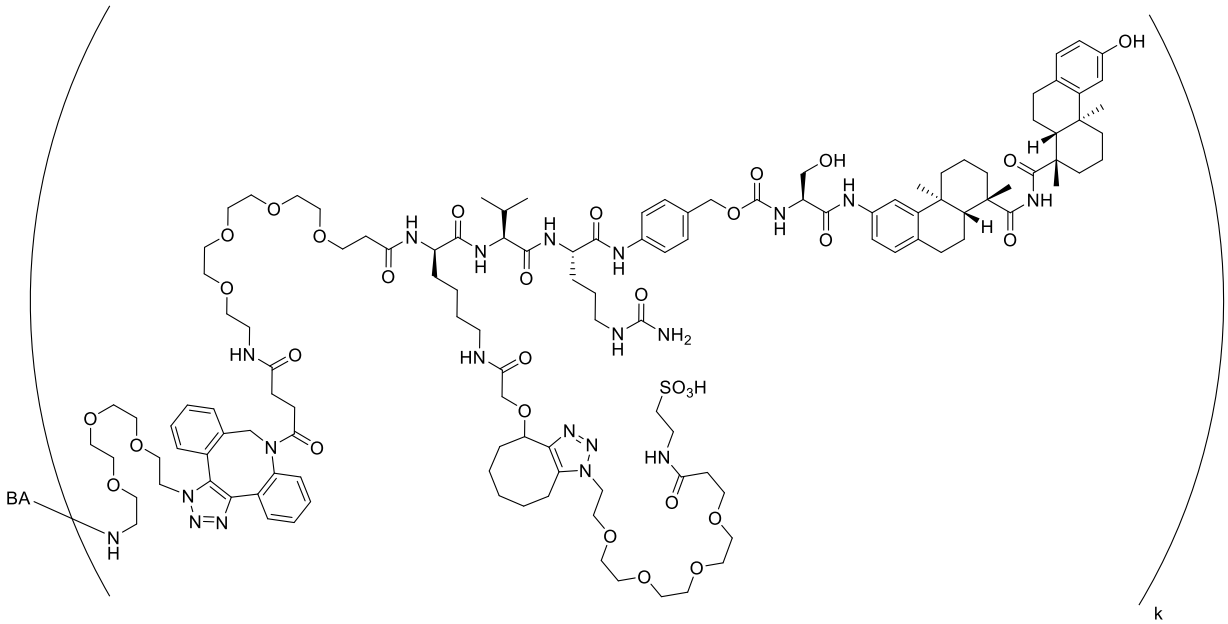

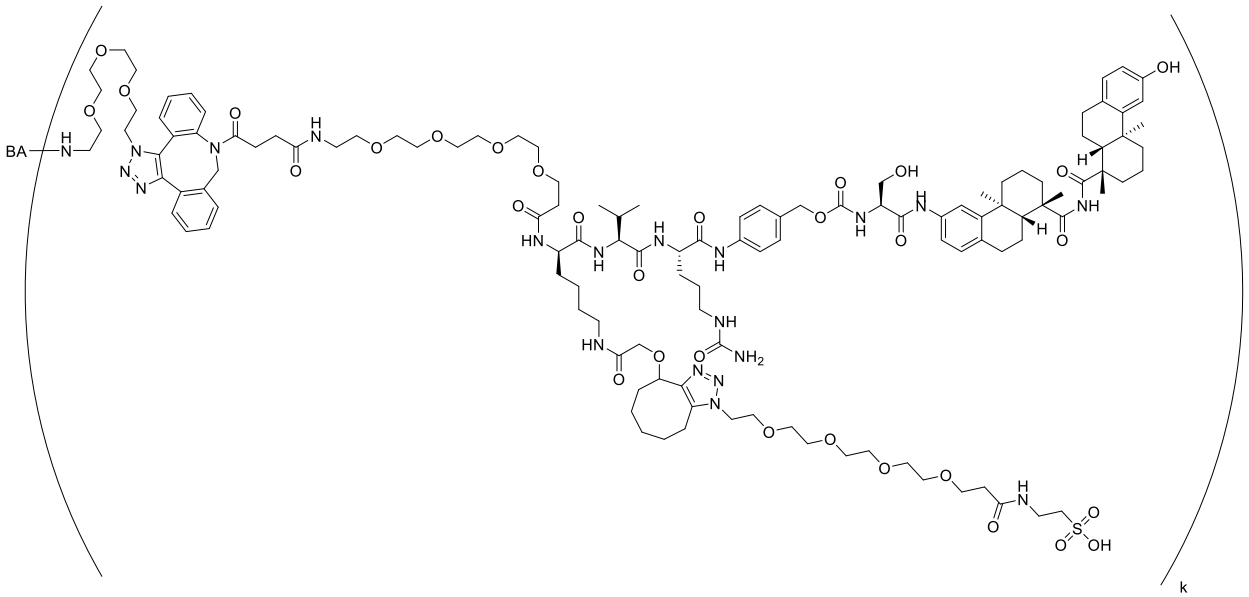
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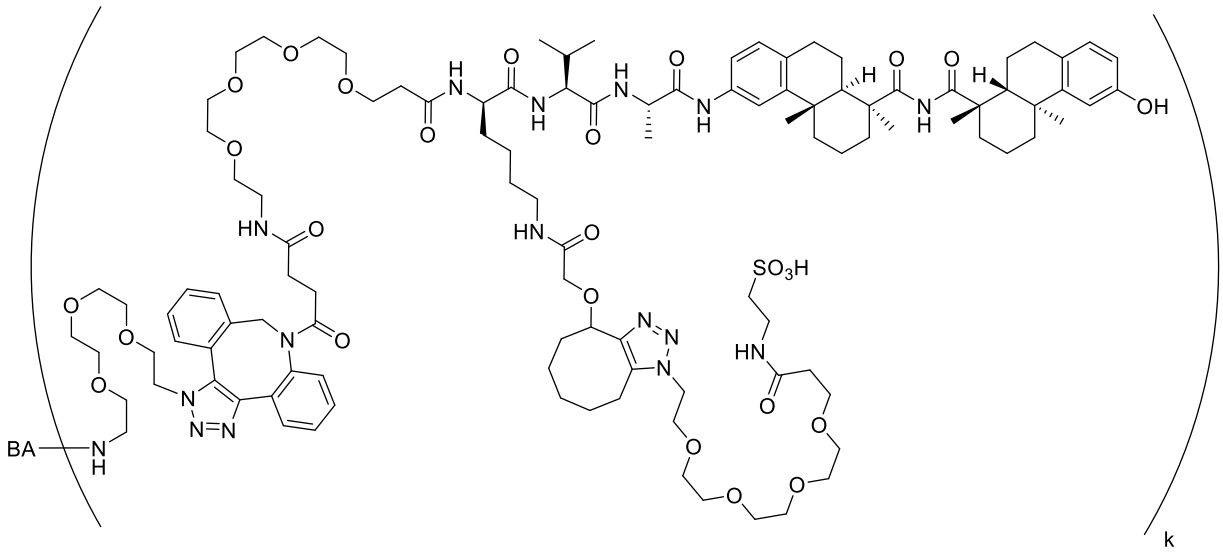
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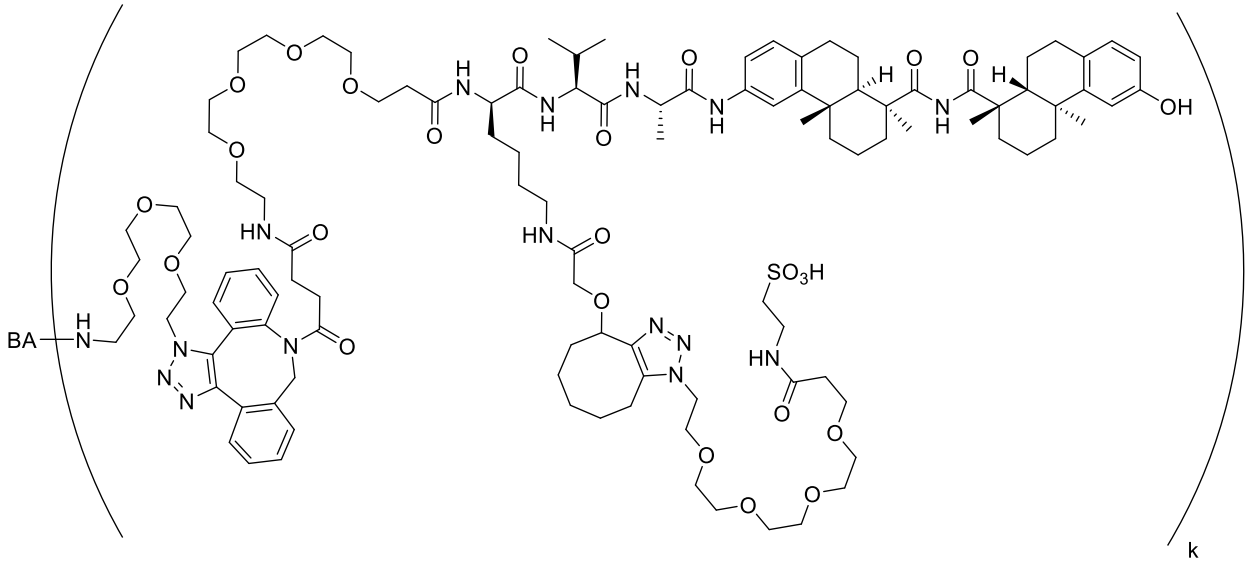
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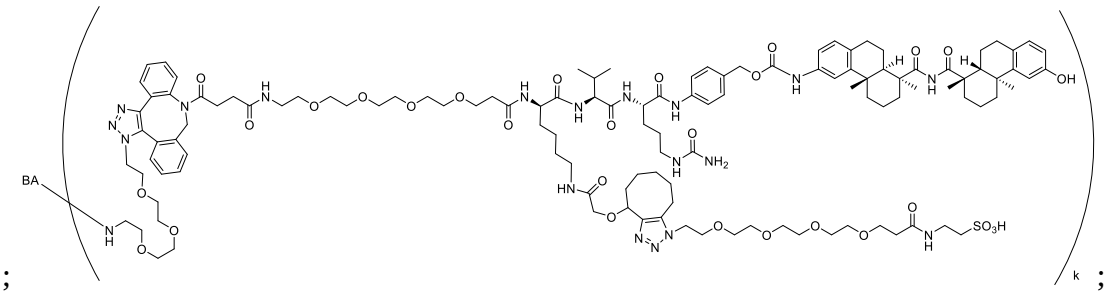
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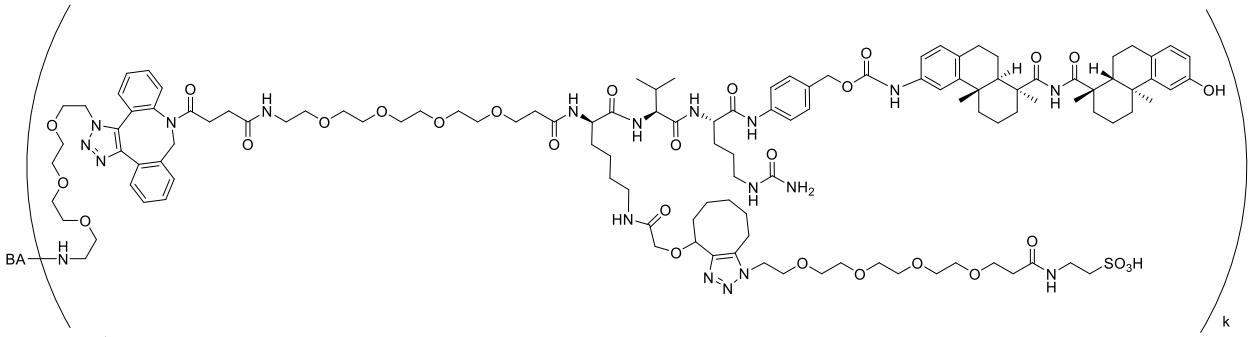
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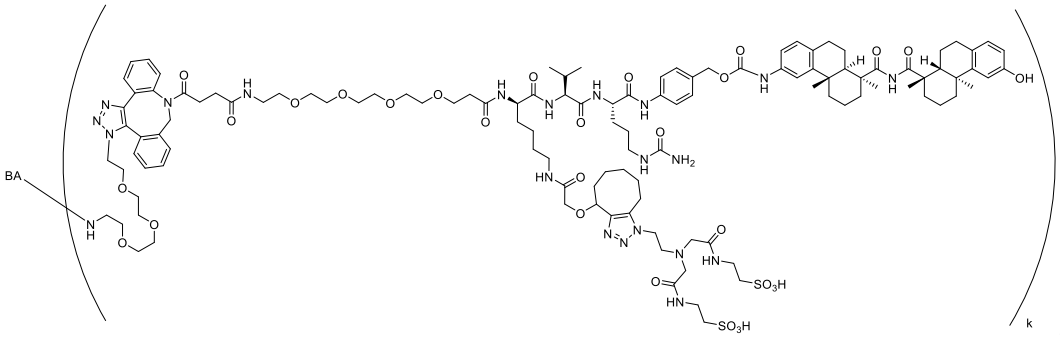
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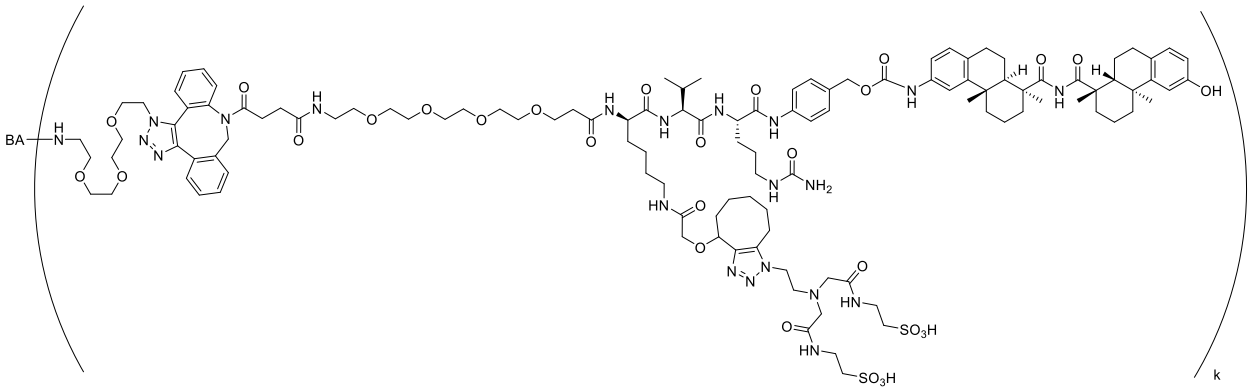

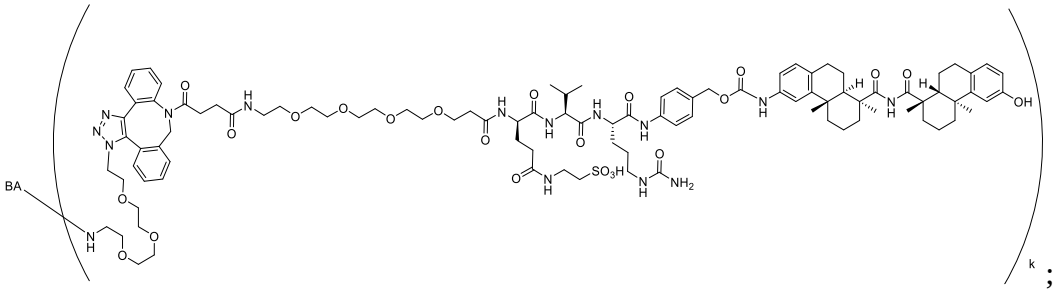

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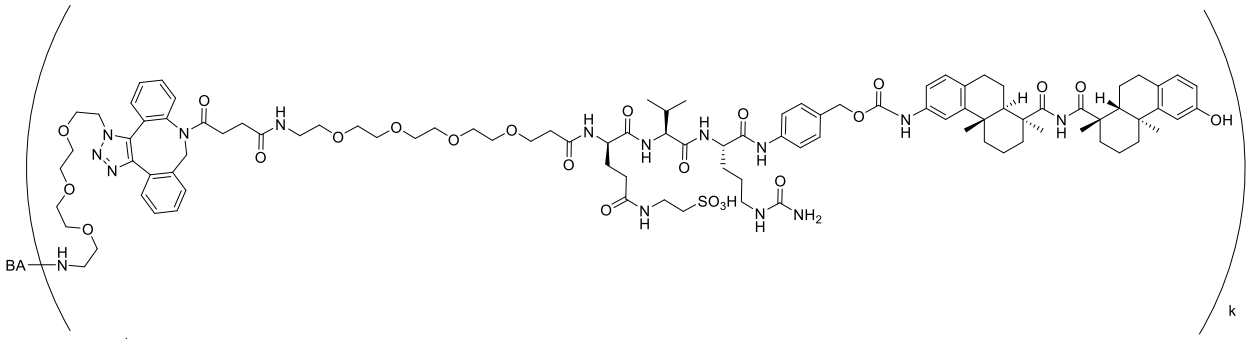

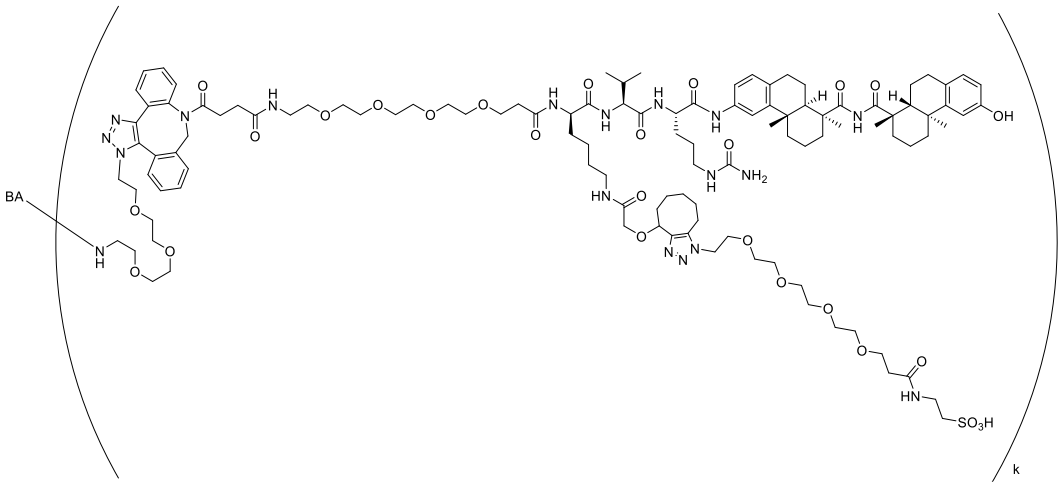

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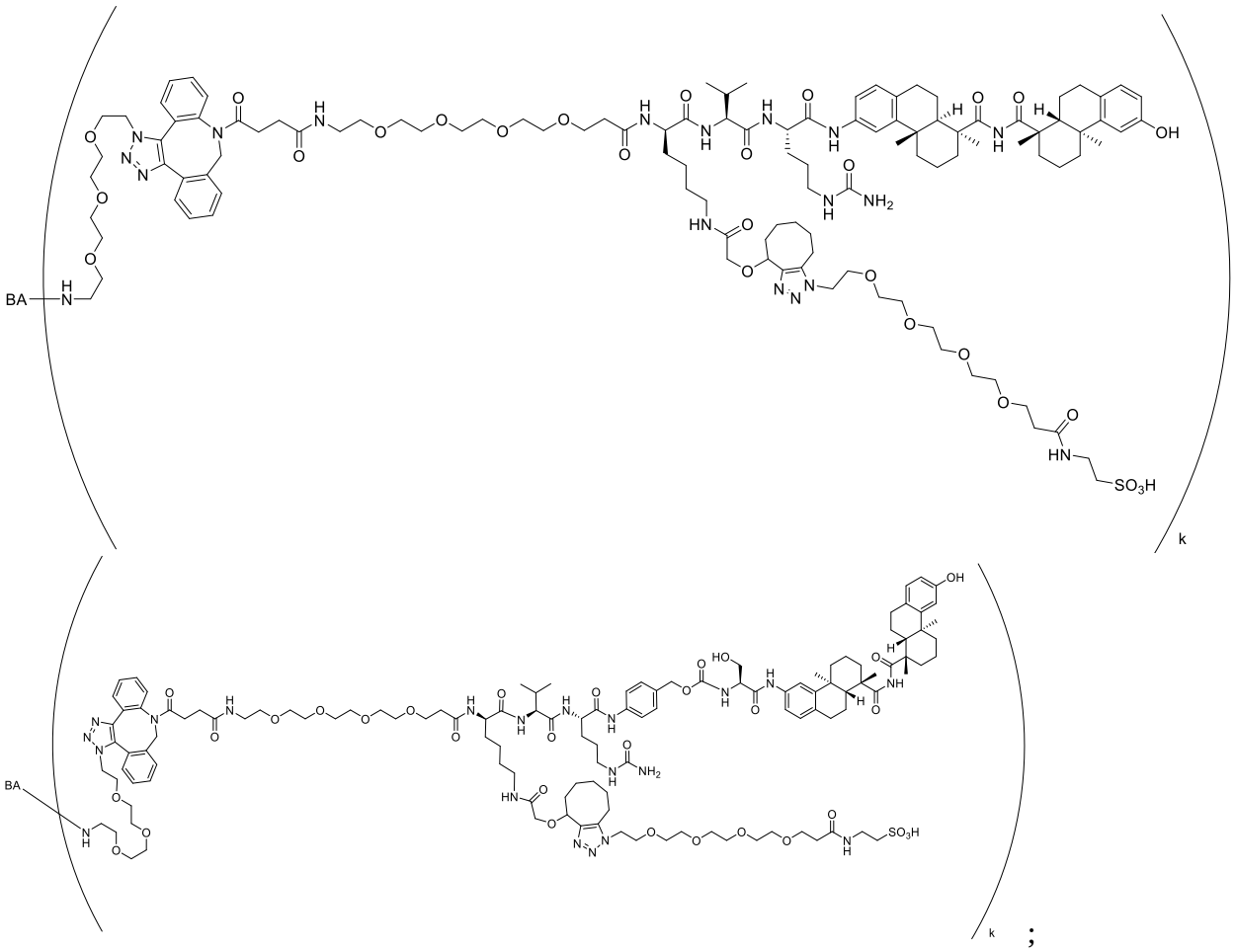
BA
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BA
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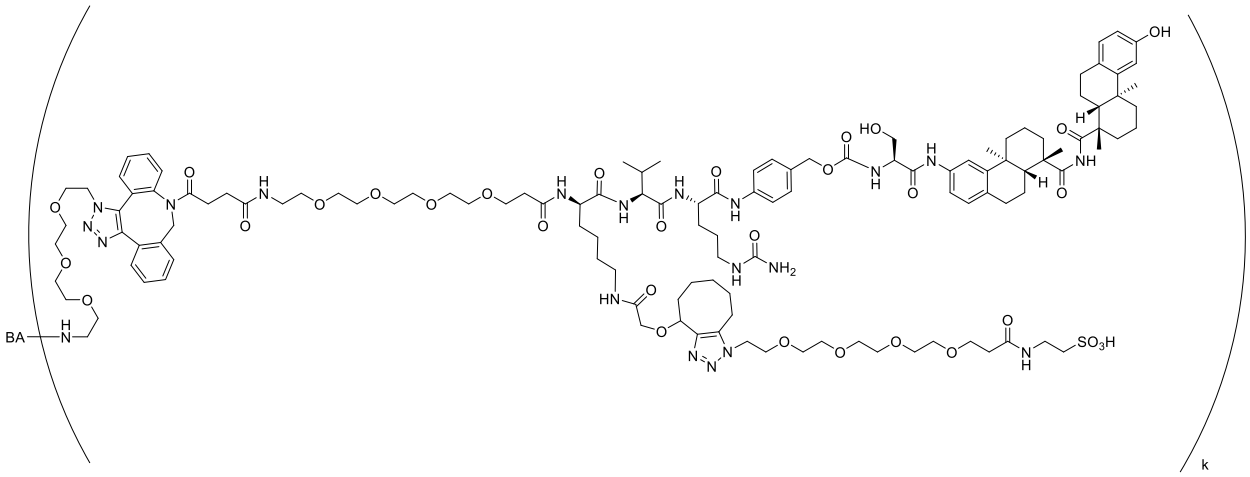

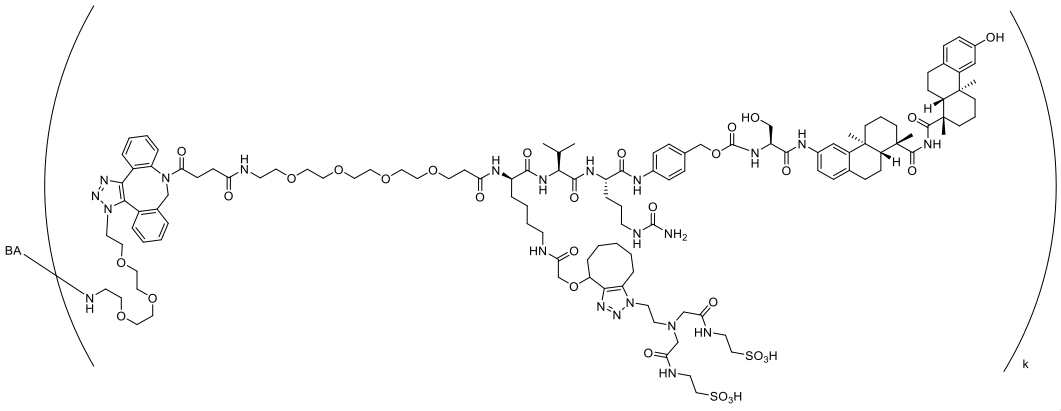

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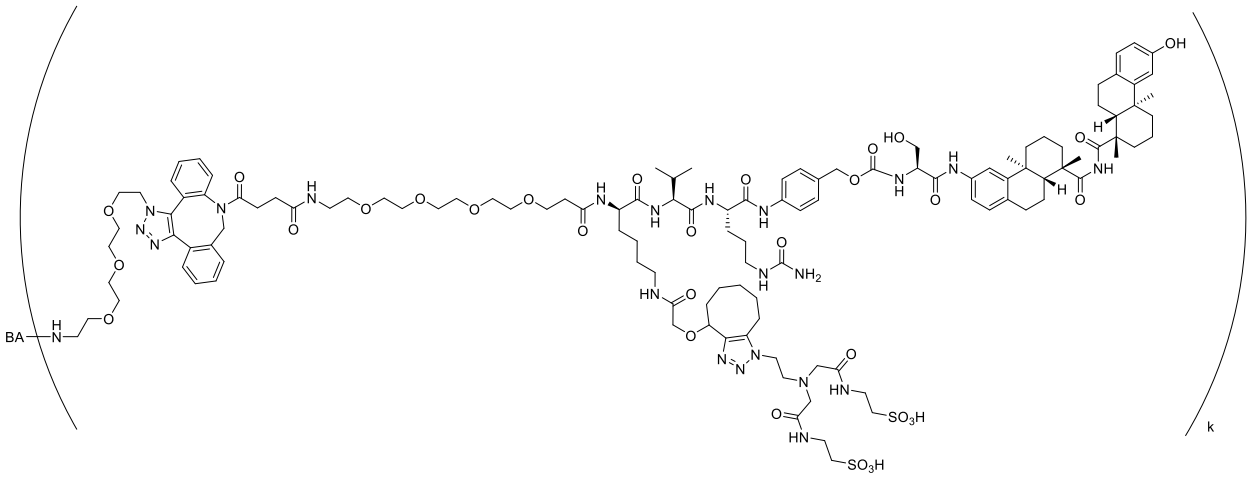

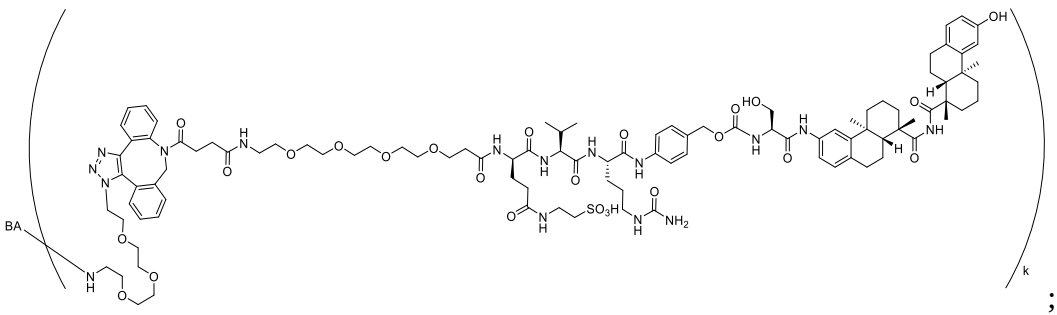

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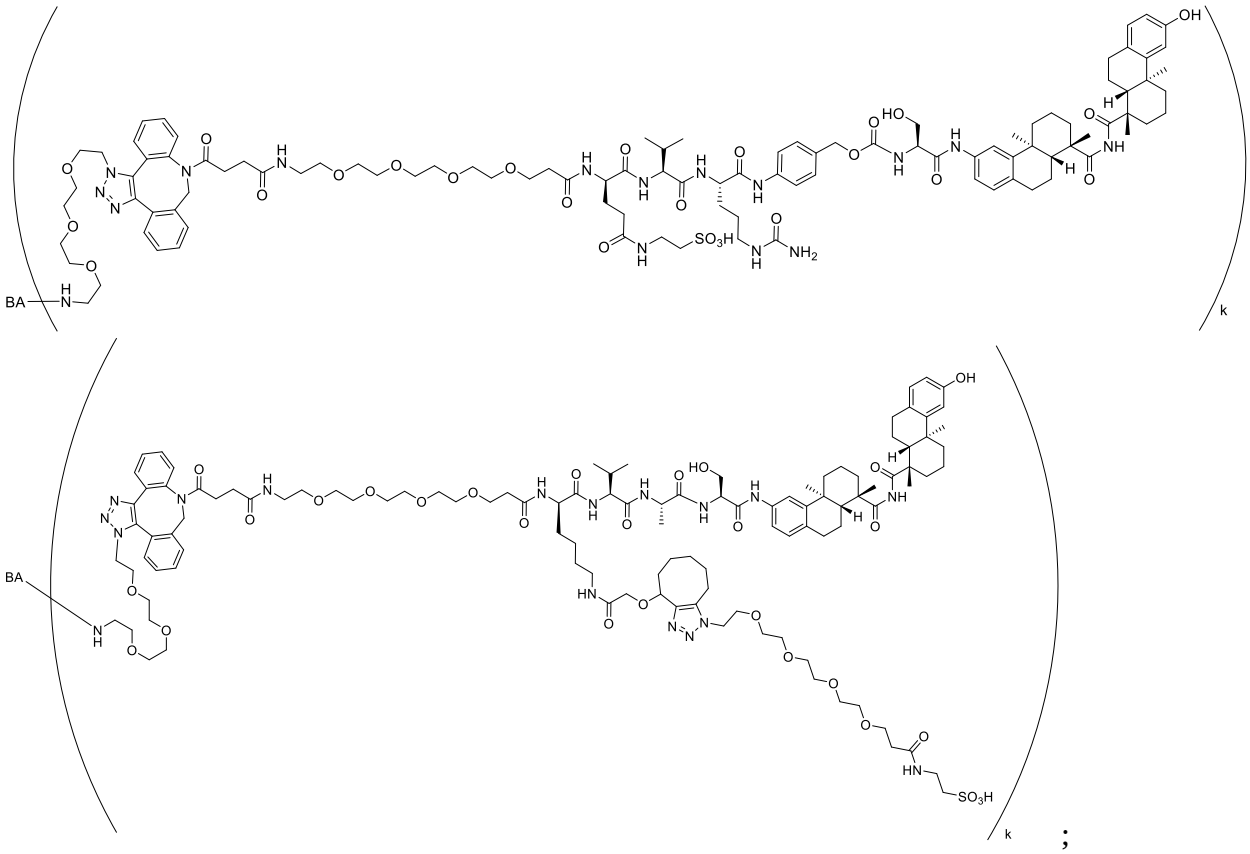
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OH
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SO3H

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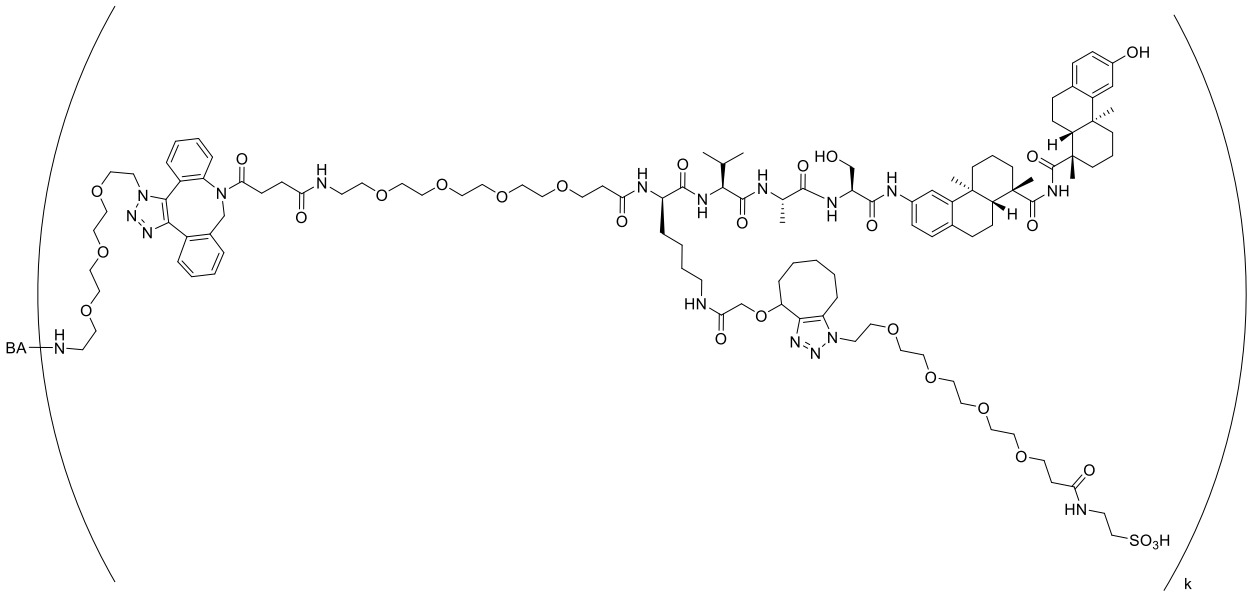

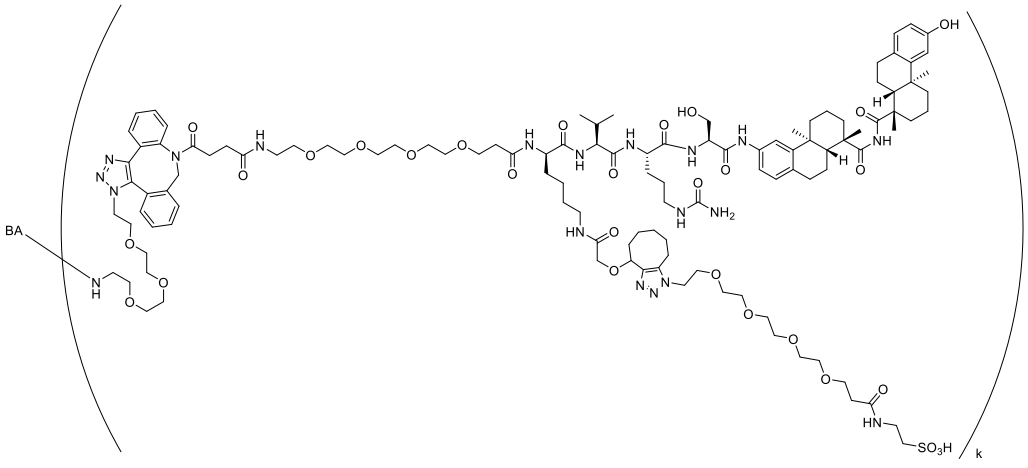

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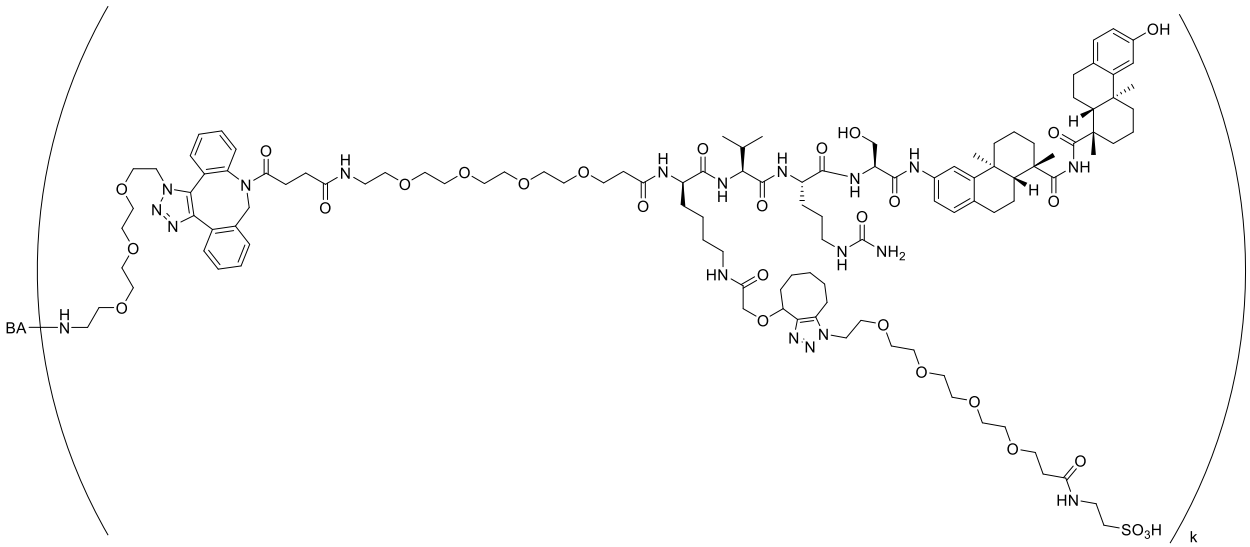
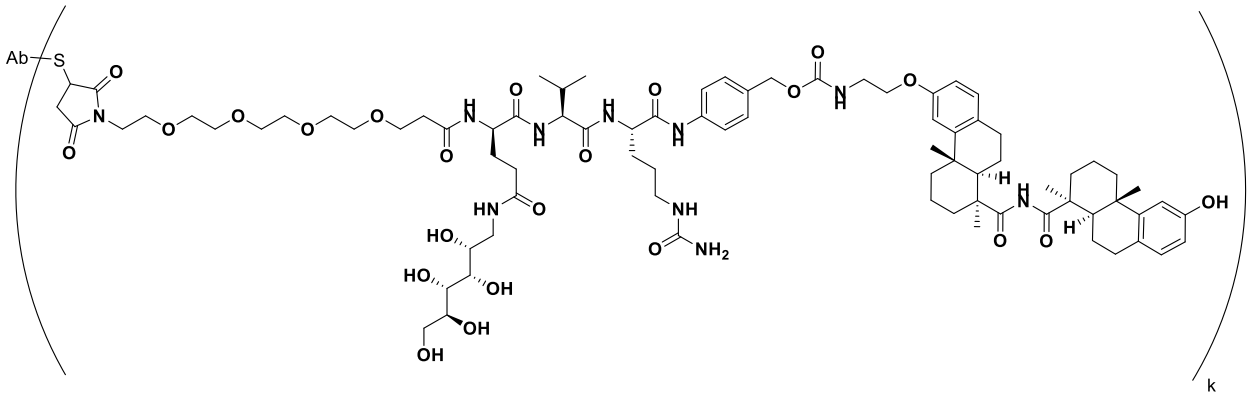


or

a stereoisomeric form or pharmaceutically acceptable salt thereof, wherein **k** is an integer from one to four.

38. The compound of claim 28, selected from the group consisting of



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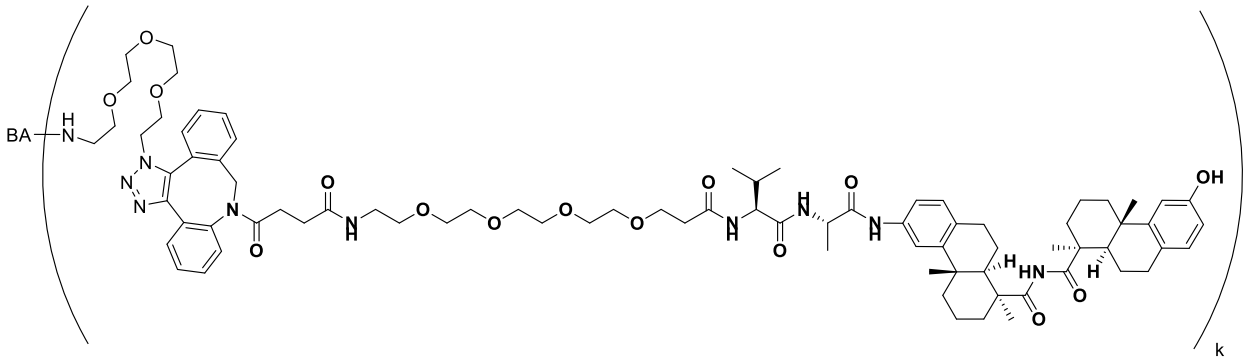

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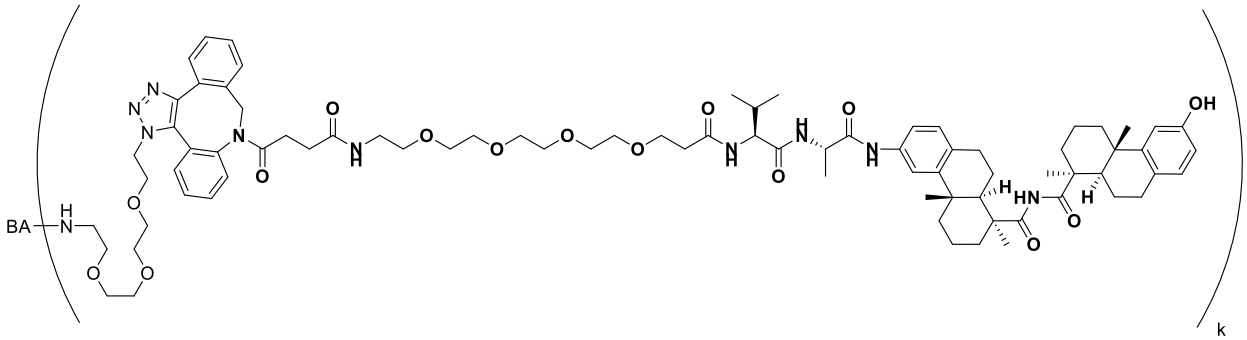

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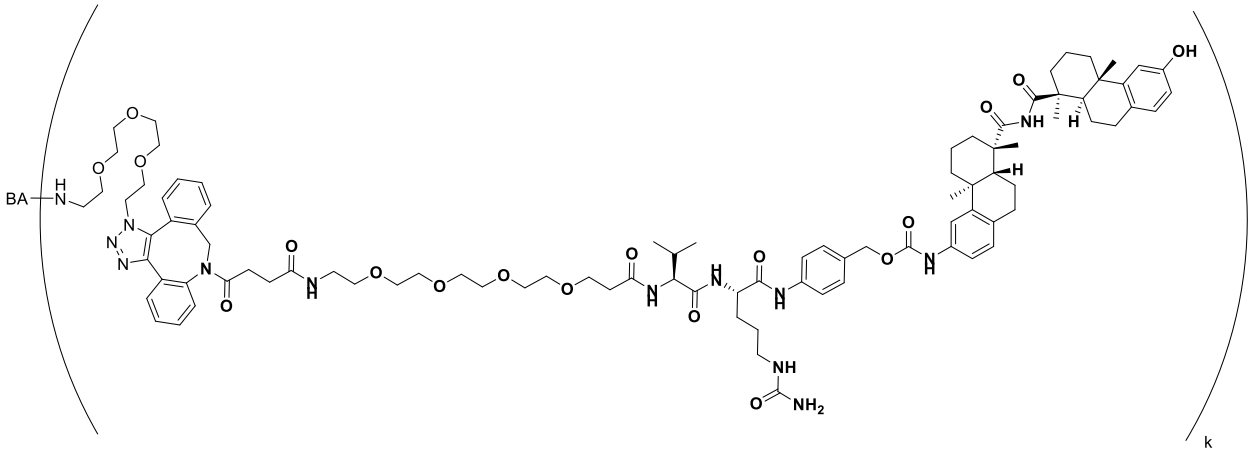

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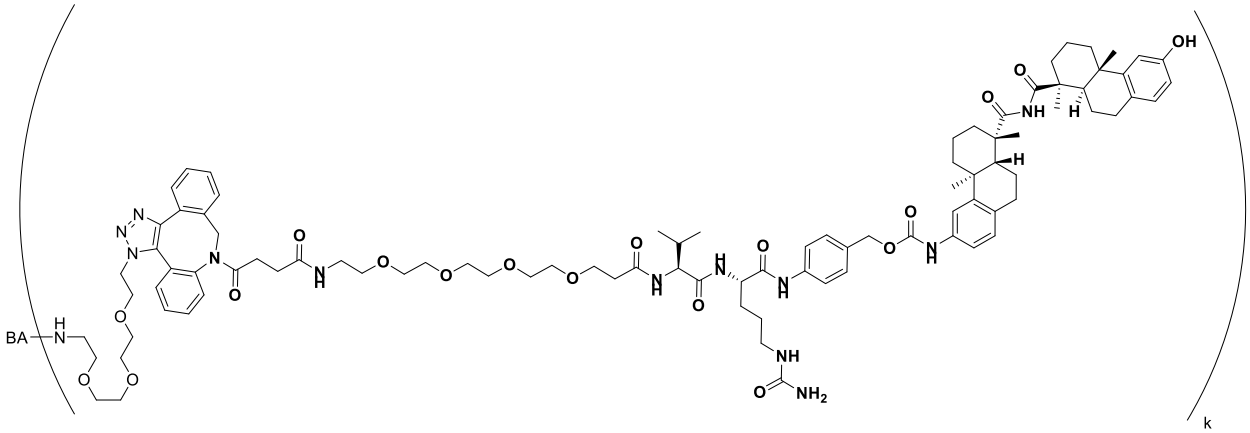

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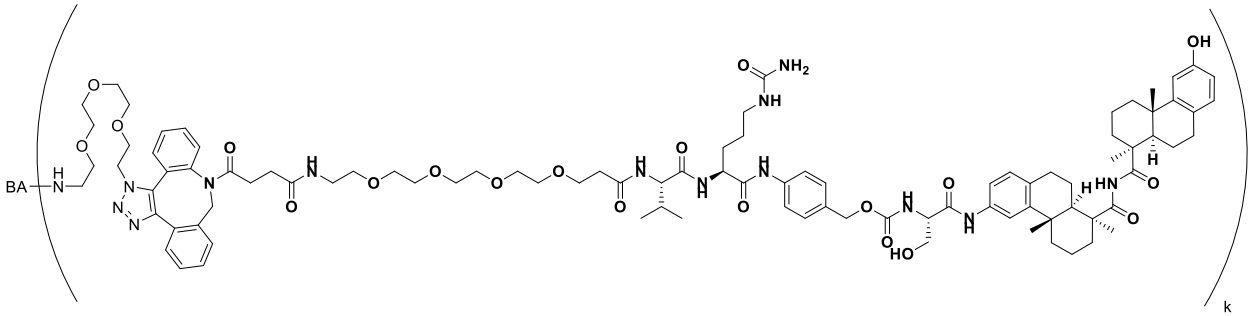

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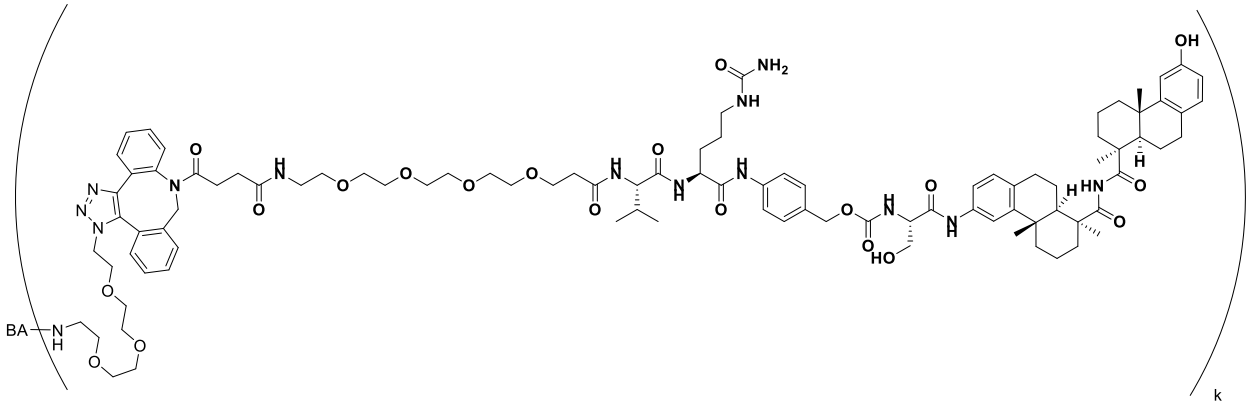

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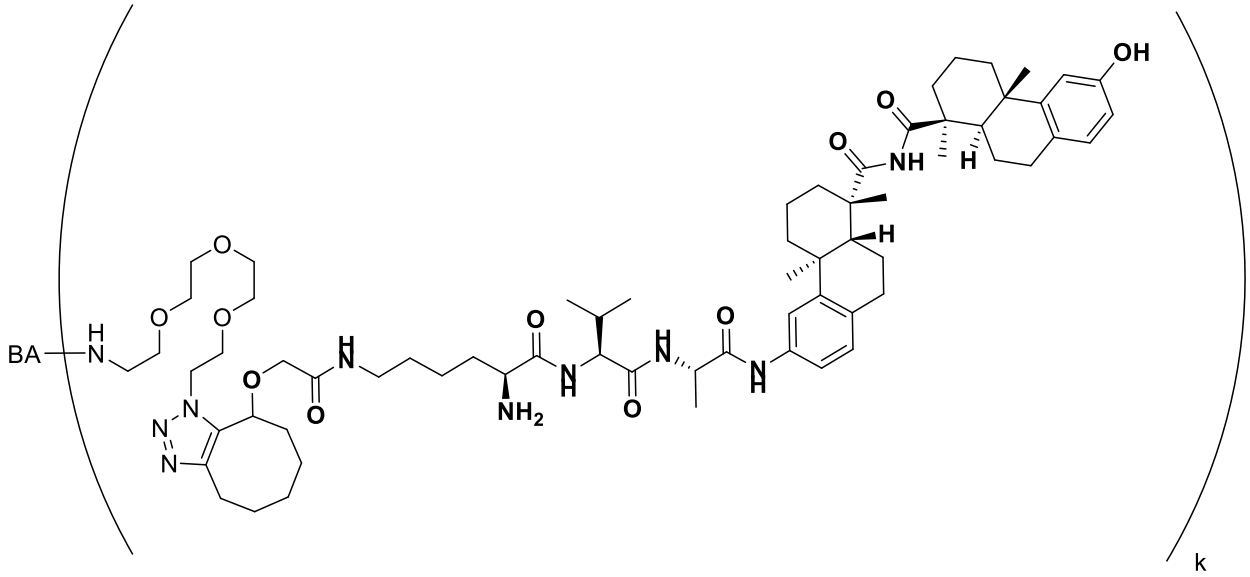
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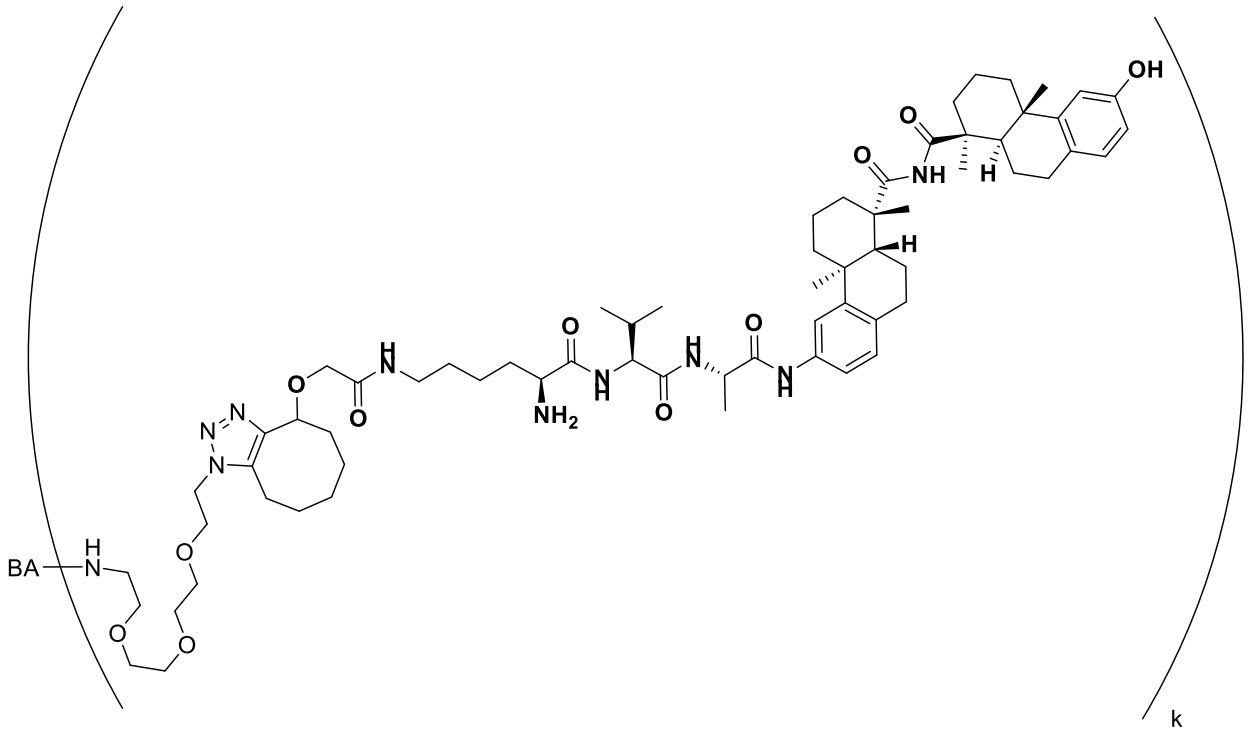
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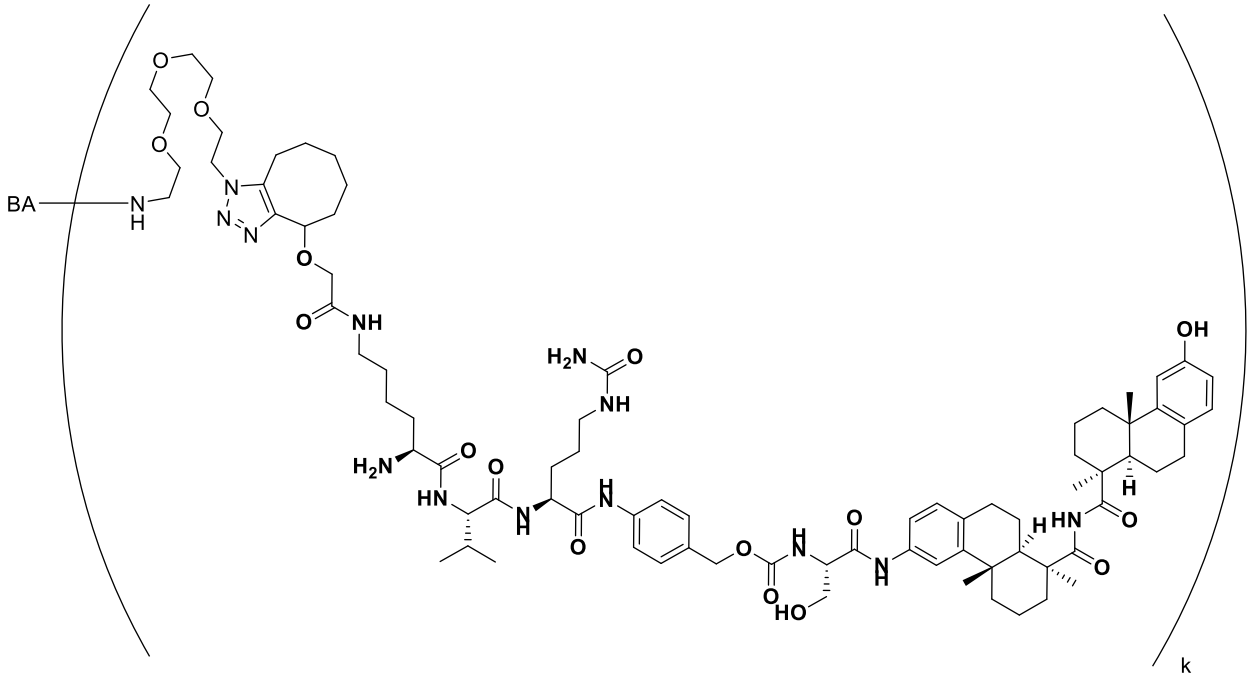
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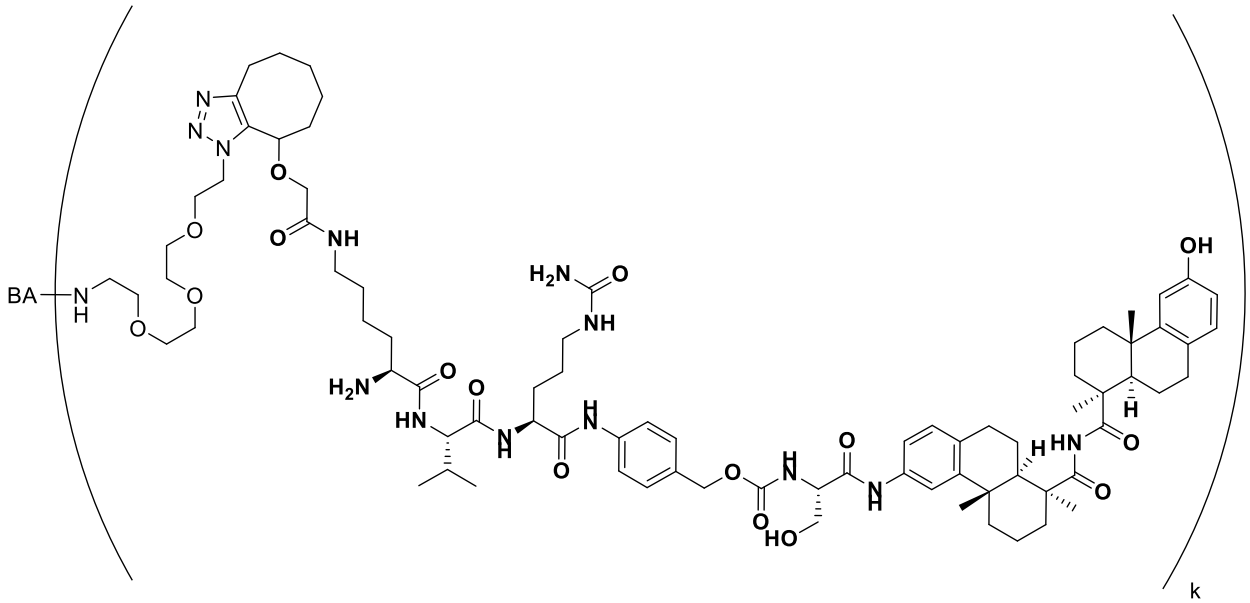
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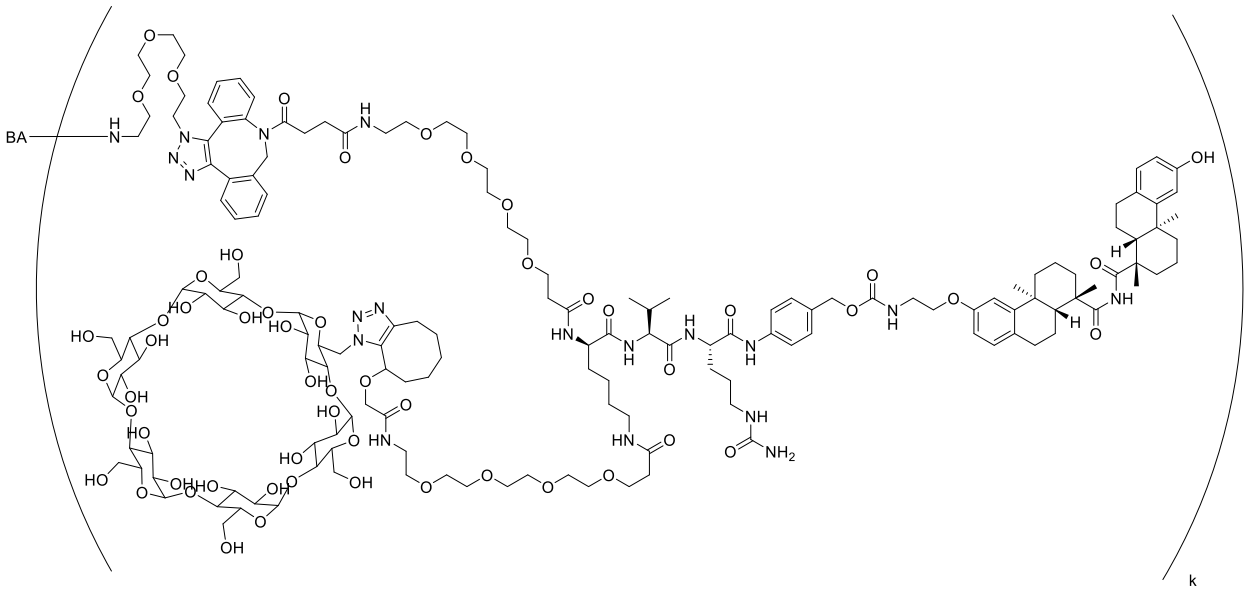

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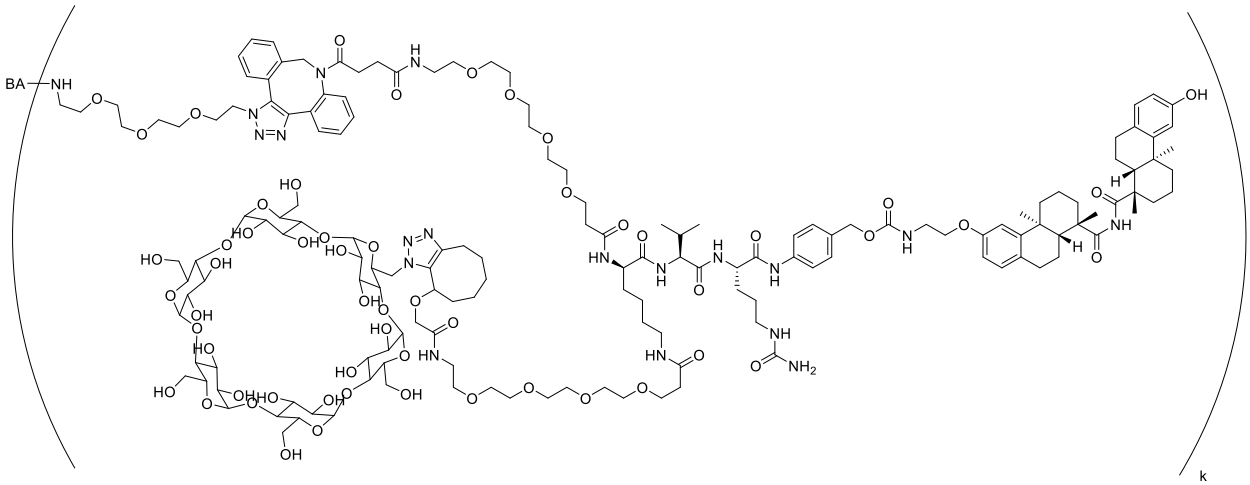

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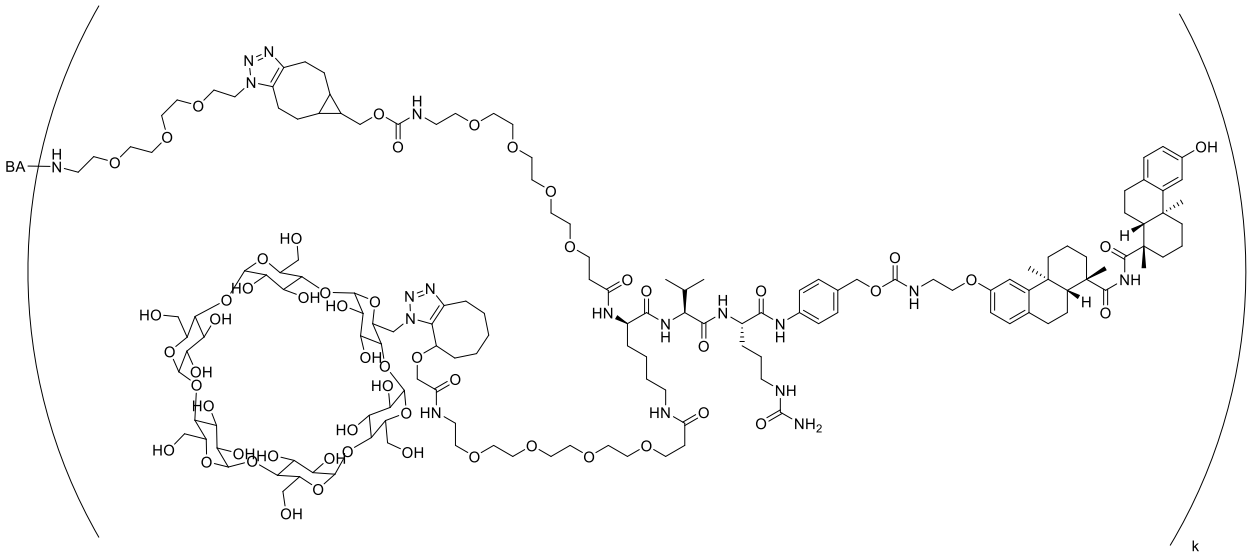

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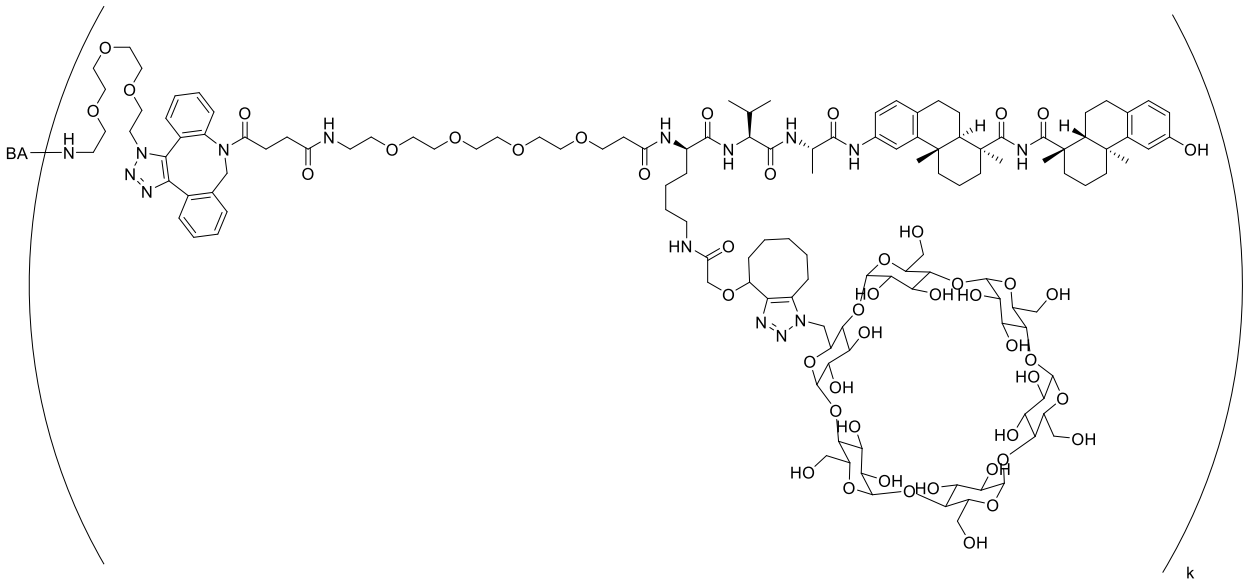
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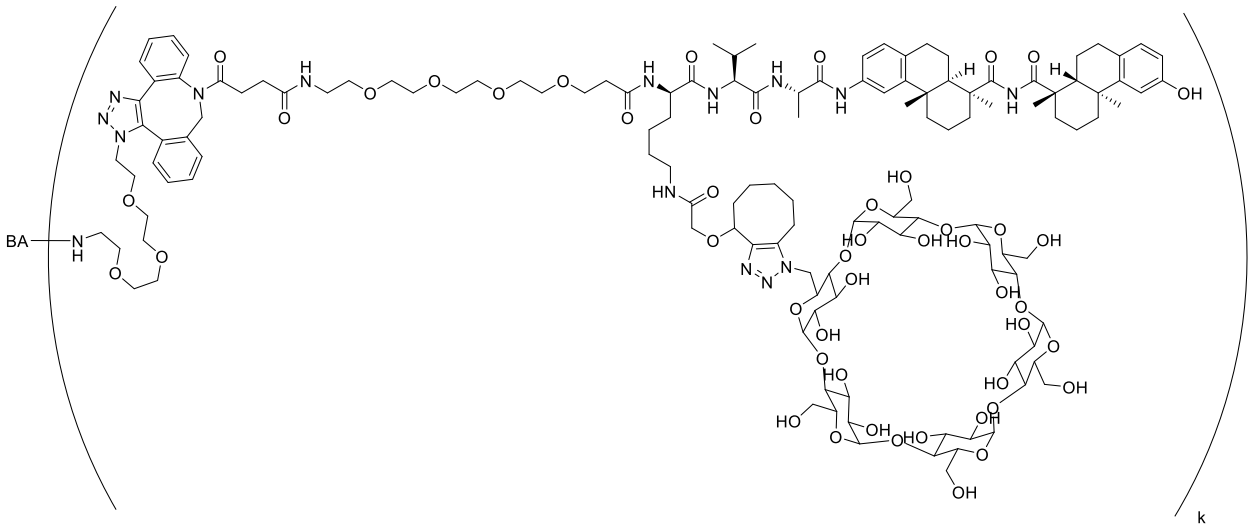
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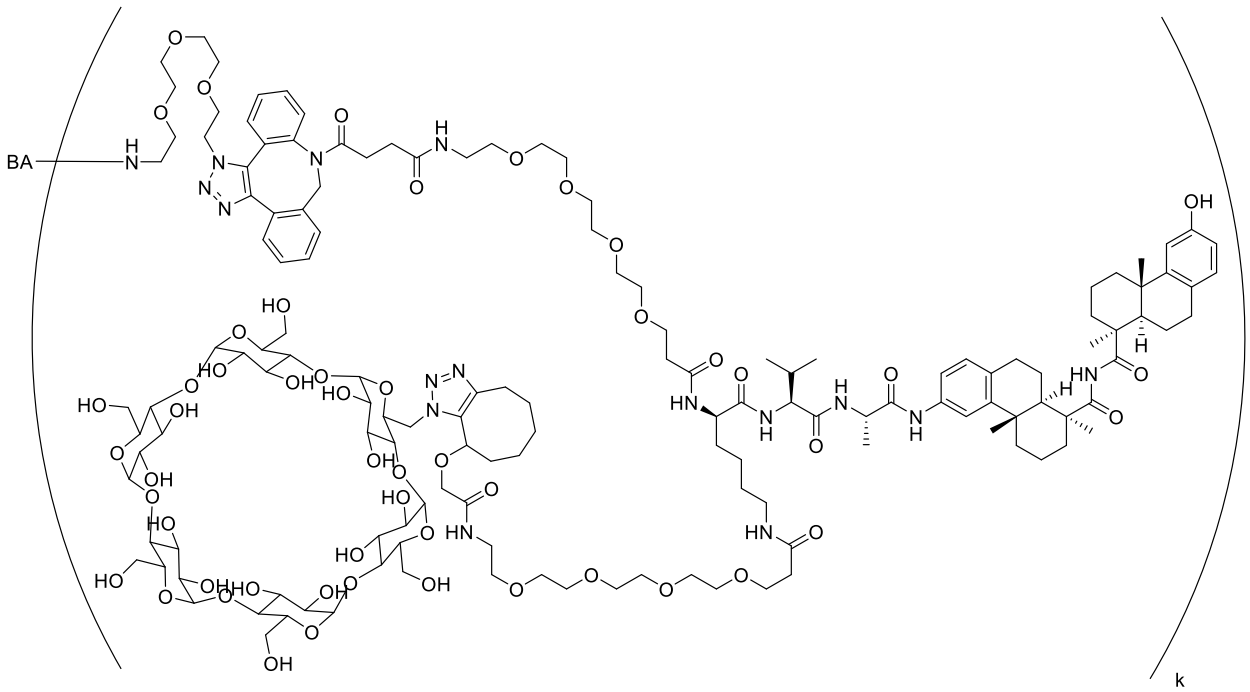
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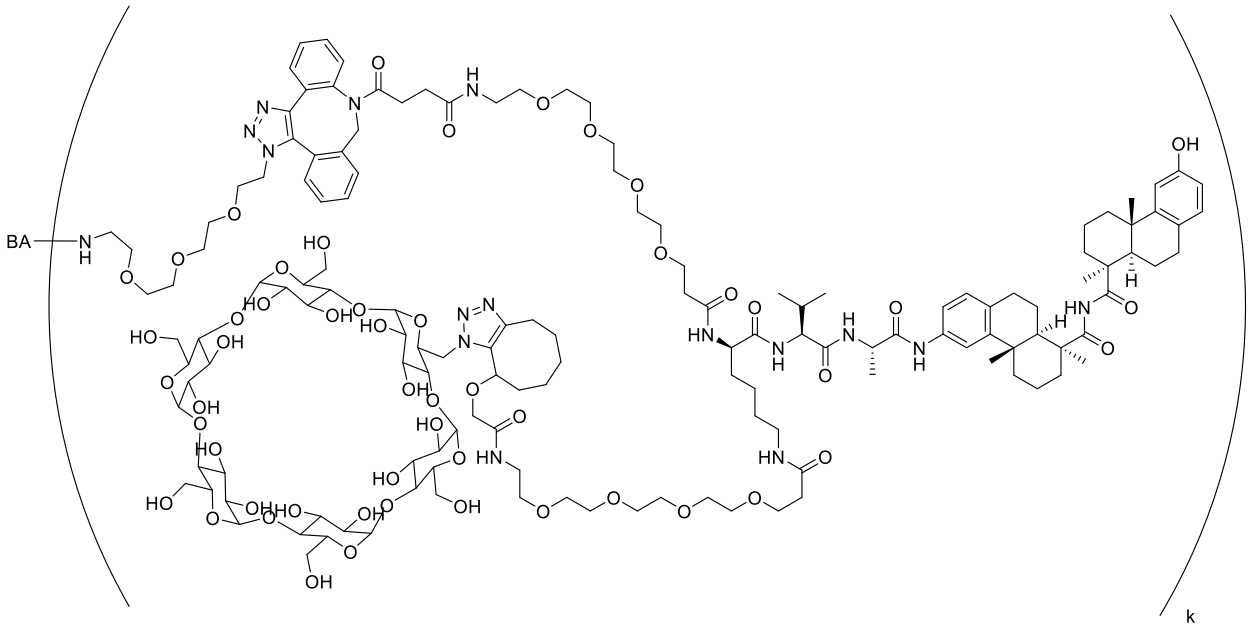
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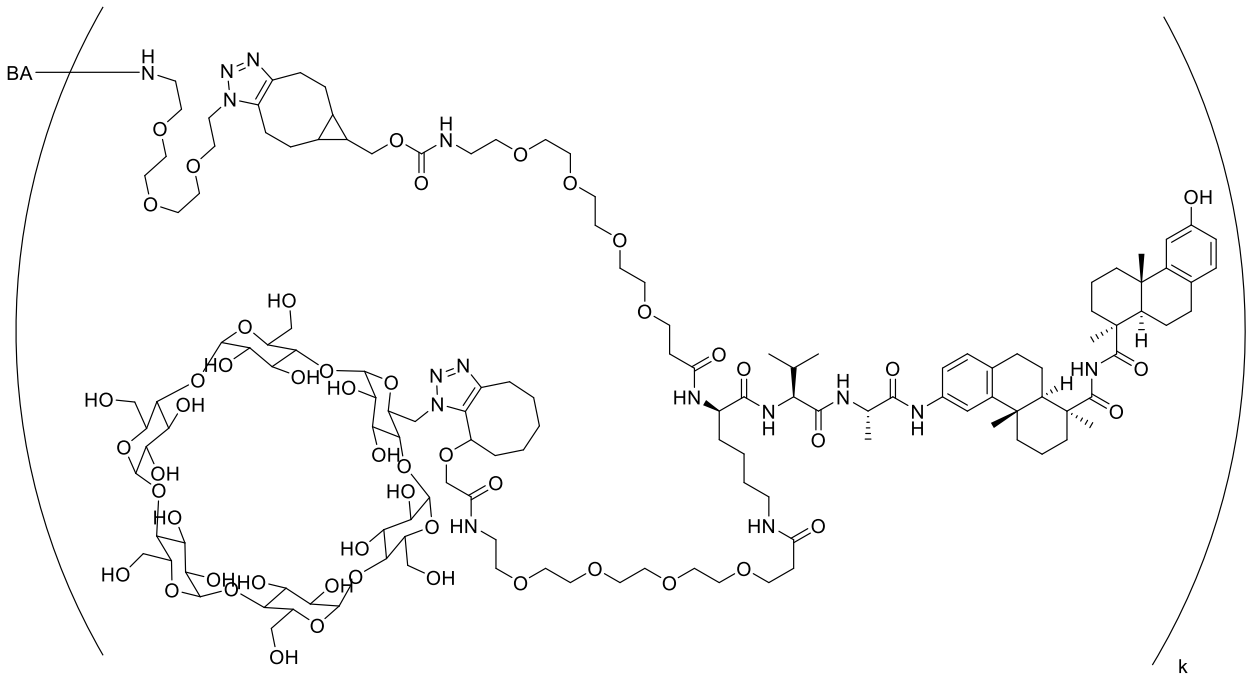
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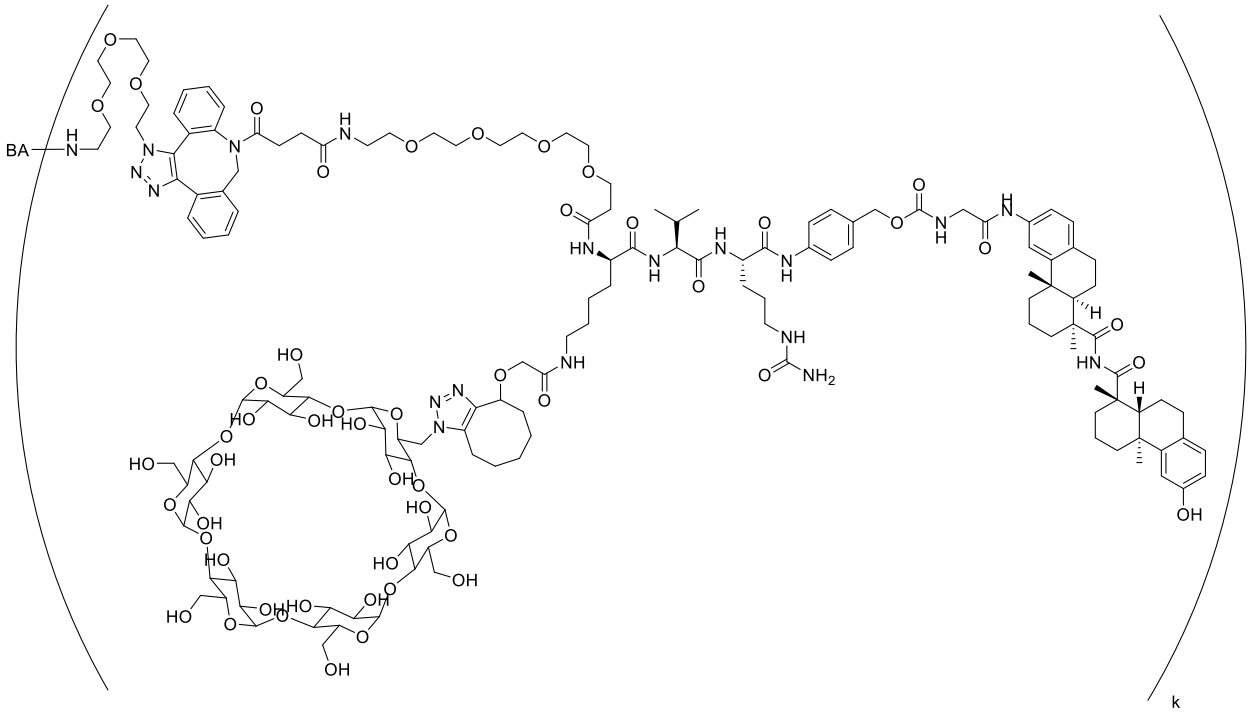
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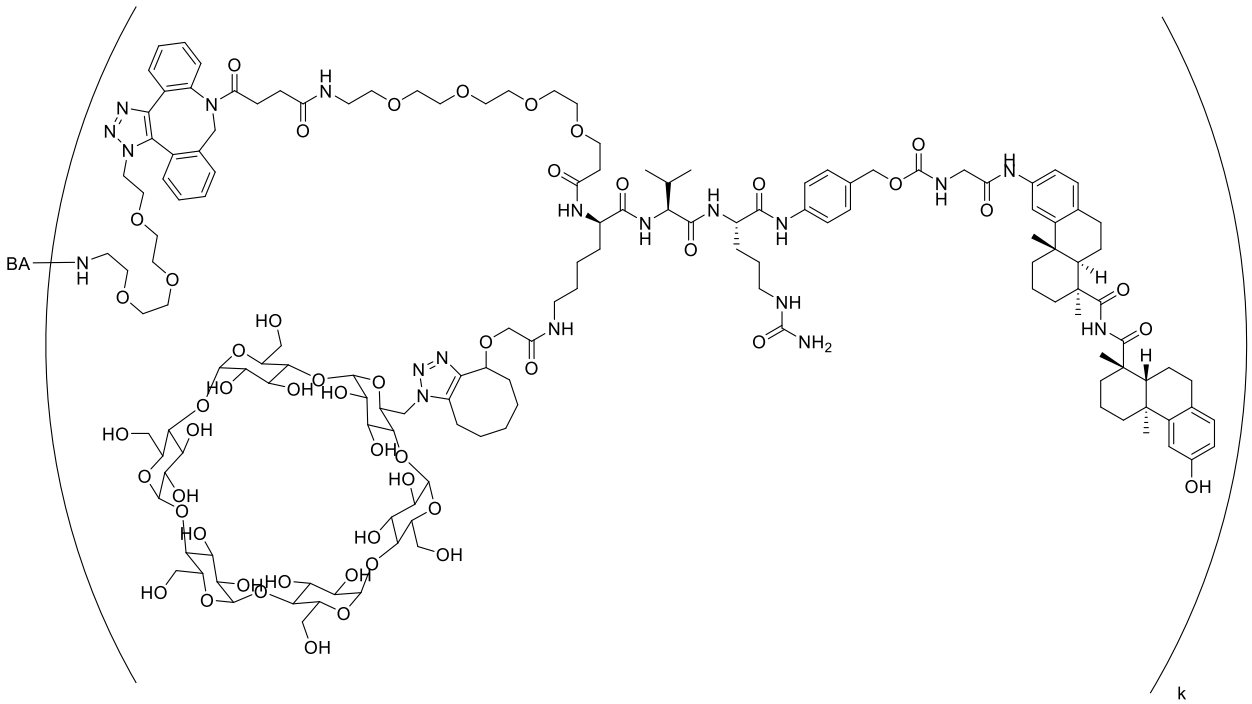
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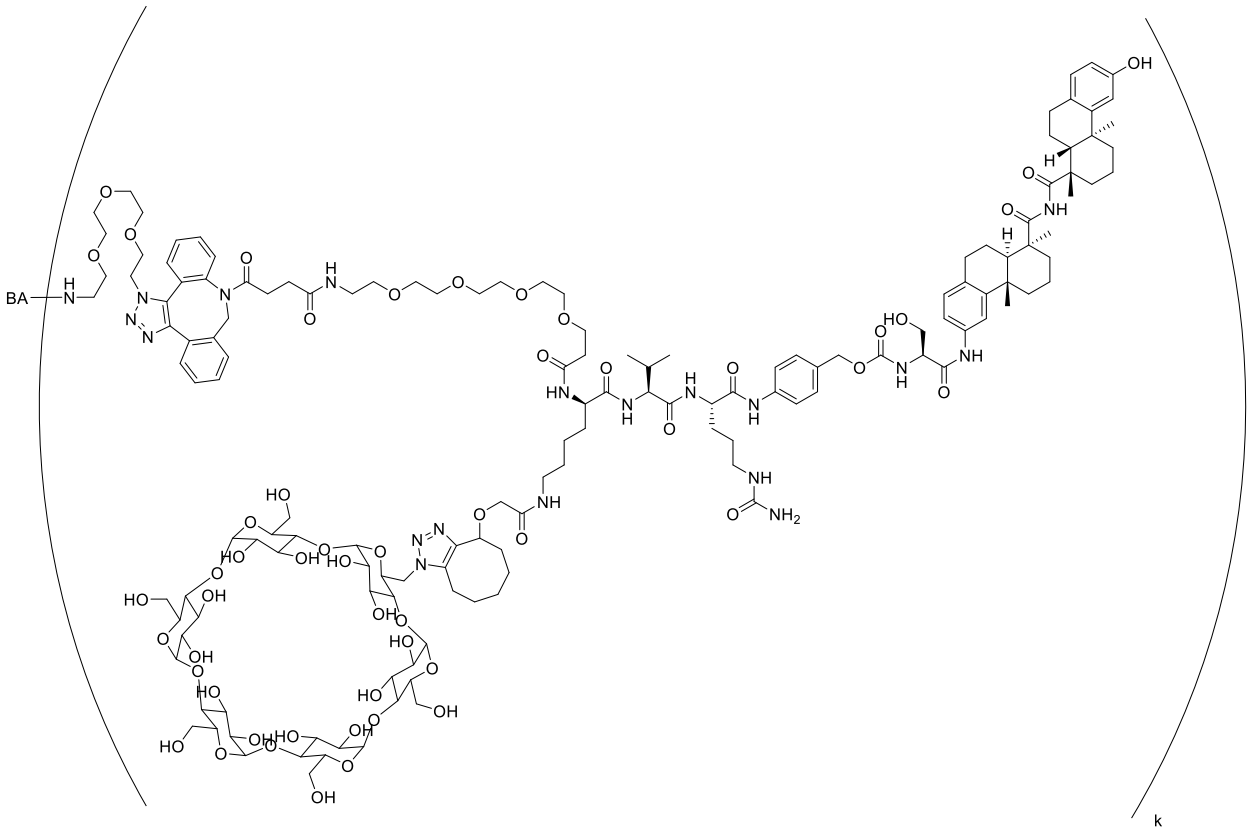
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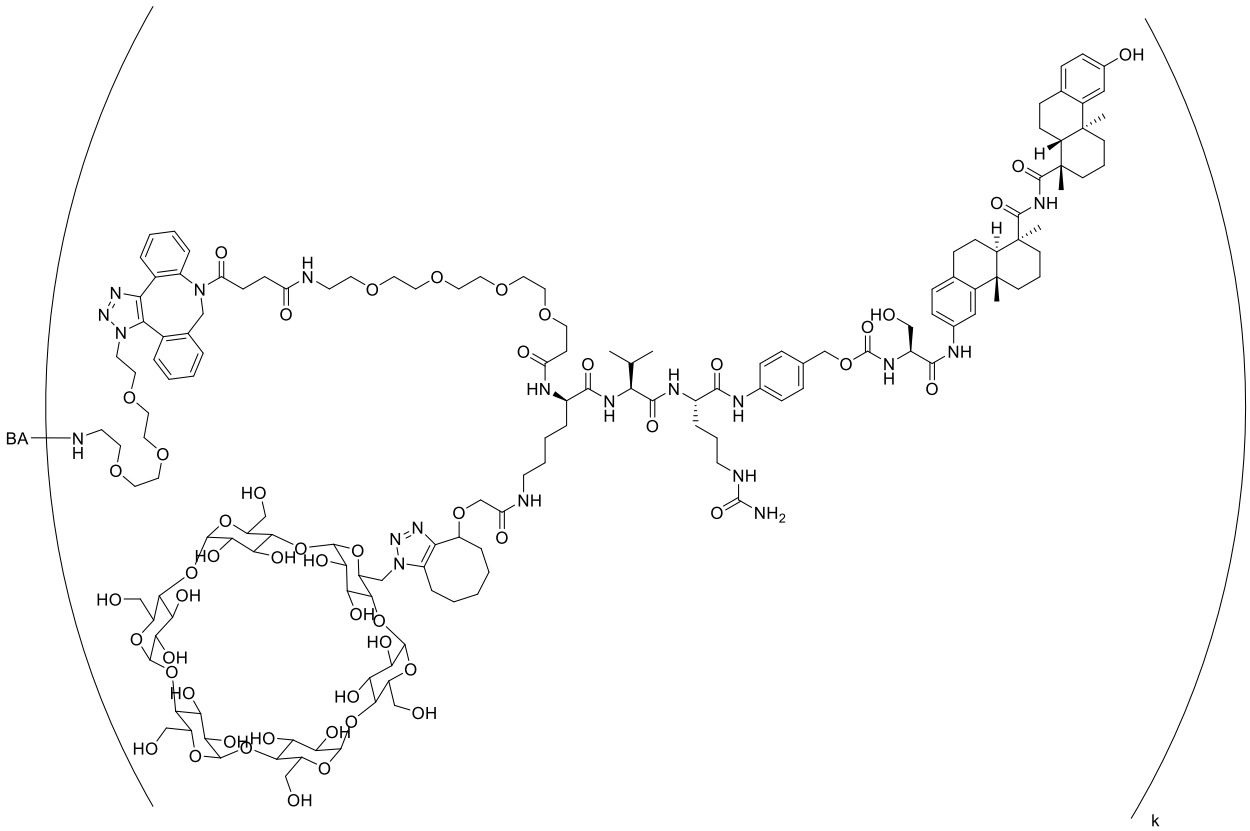
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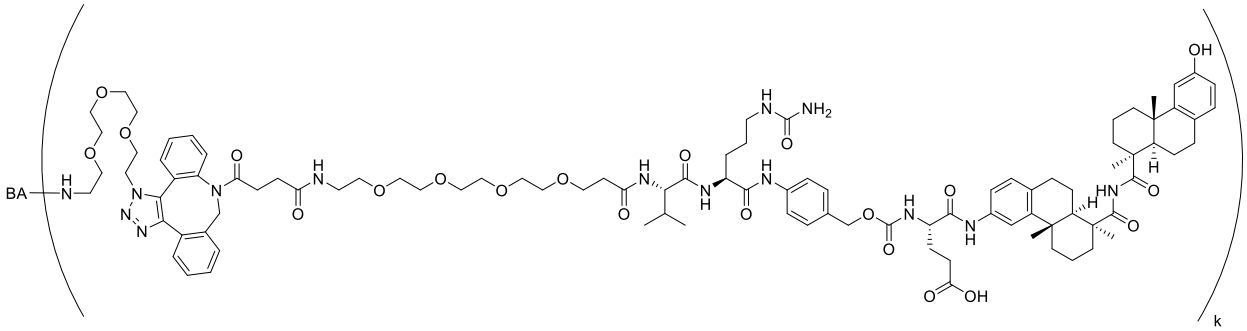
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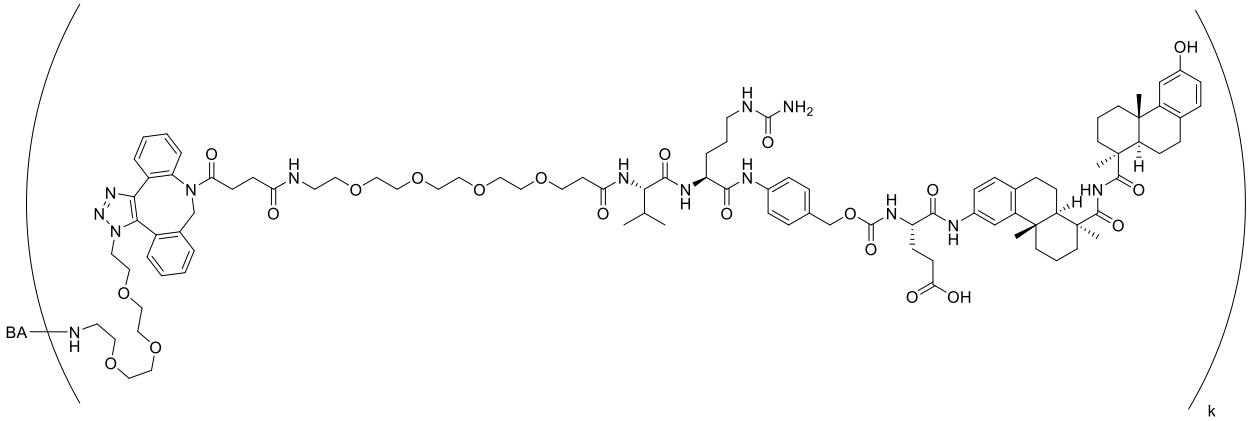
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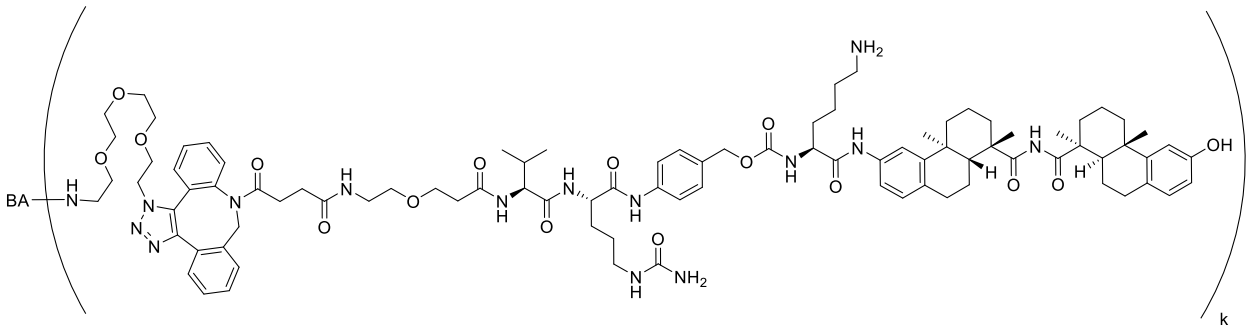

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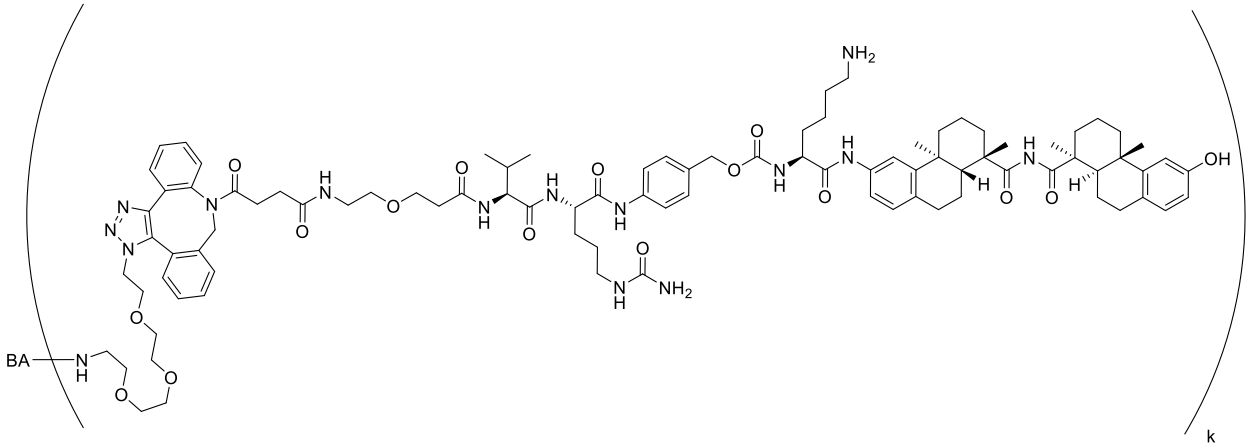

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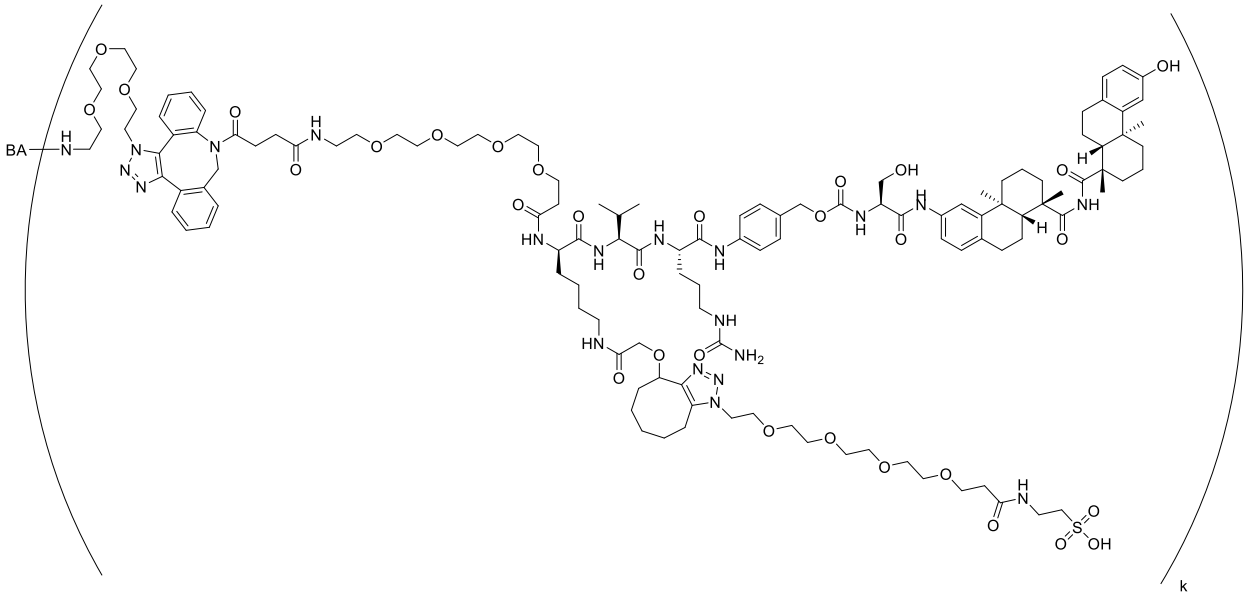

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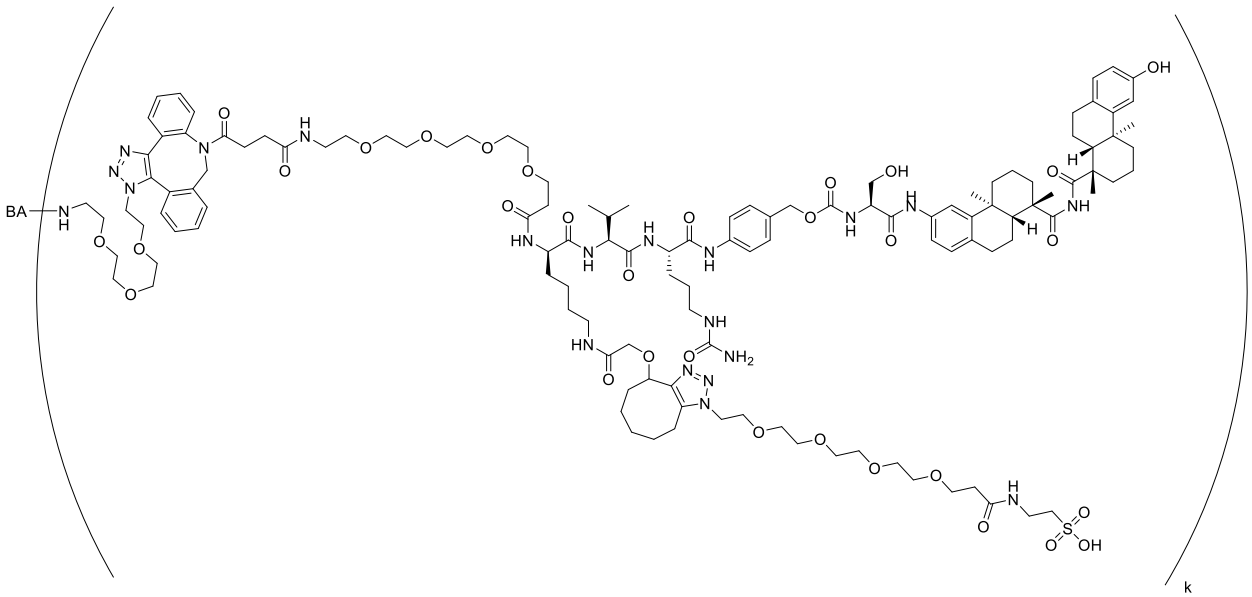

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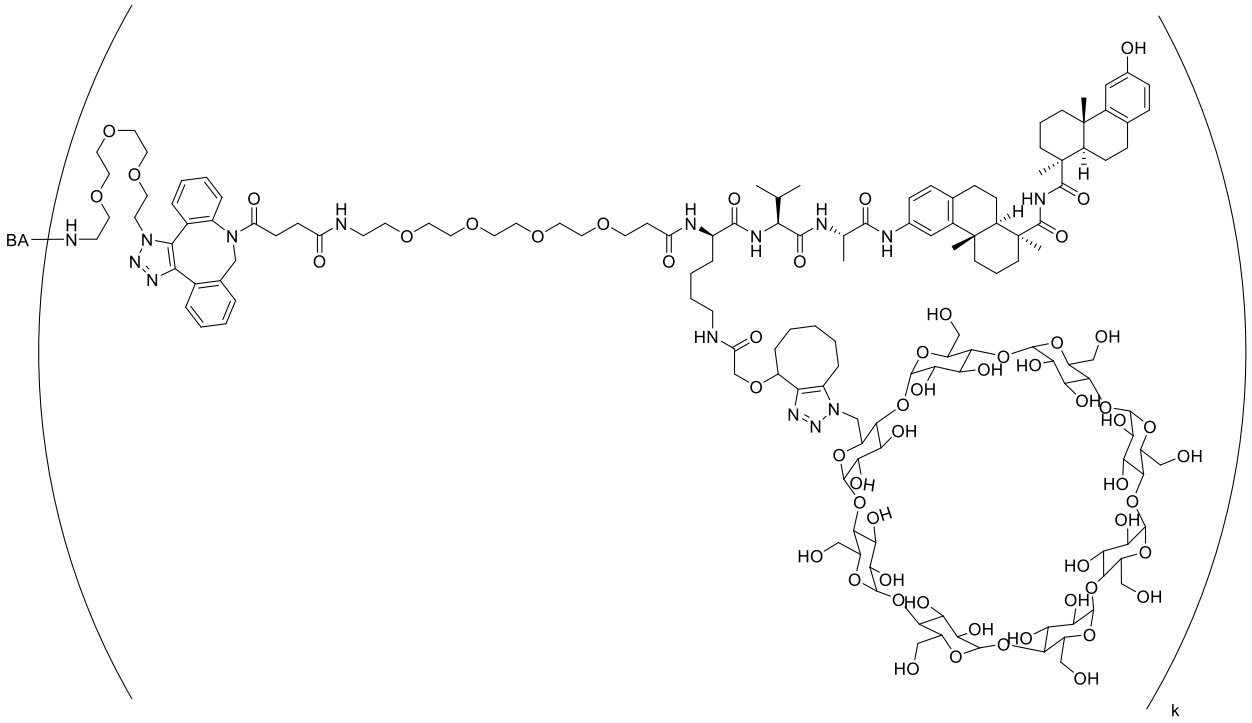

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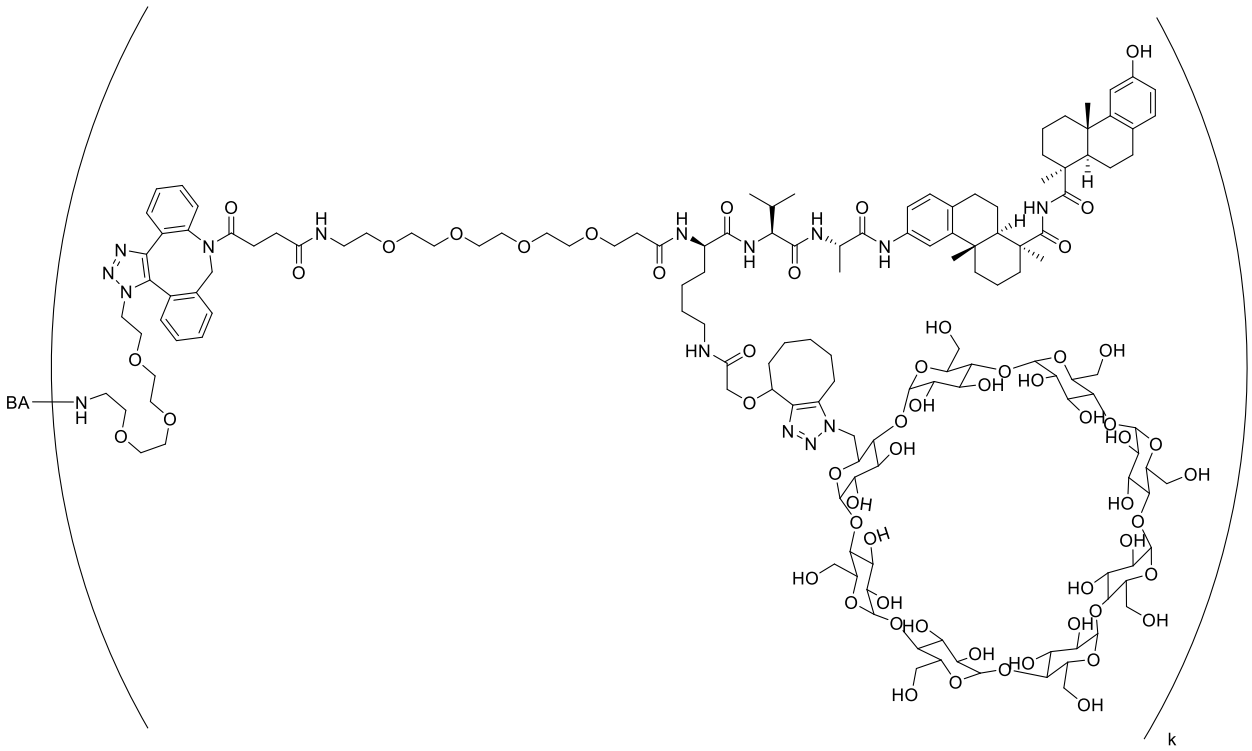


;

or a stereoisomeric form or pharmaceutically acceptable salt thereof, wherein **k** is an integer from one to four; and

Ab is a binding agent or antibody or antigen binding fragment thereof.

39. The compound of any one of claims 35-38, wherein **k** is two.

40. The compound of any one of claims 35-38, wherein **k** is four.

41. The compound of any one of claims 35-38, wherein **BA** or **Ab** is an antibody having binding specificity for an antigen selected from the group consisting of class A-J scavenger receptors.

42. The compound of any one of claims 35-38, wherein **BA** or **Ab** is an antibody having binding specificity for an antigen selected from the group consisting of MSR1, MARCO, SRCL, SCARA5, COLEC12, CD36, LIMPII, SRBI, SRBII, CD68, LAMP, LOX-1, Dectin-1, SREC-I, SREC-II, MEGF, CXCL16, Fasciclin, FEEL-1, FEEL-2, CD163, RAGE, C-type lectin superfamily members, DEC205, CD206, Dectin-2, Mincle, DC-SIGN, DNGR-1, VSIG4, CSF1R, ASGPR, and APLP-2.

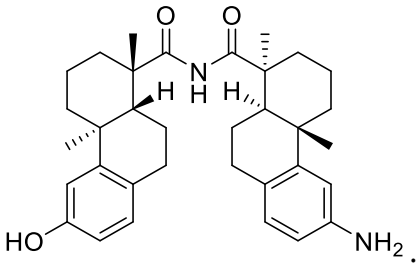
43. The compound of any one of claims 35-38, wherein **BA** or **Ab** is an antibody having binding specificity for Her2 or PRLR.

44. The compound of any one of claims 35-38, wherein **BA** or **Ab** is an antibody having binding specificity for MSR1.

45. The compound of any one of claims 35-38, wherein **BA** or **Ab** is an antibody linked through one or more N295 residues.

46. The compound of any one of claims 35-38, wherein **BA** or **Ab** is an antibody linked through one or more N295 and N297Q residues.

47. The compound of claim 1, having the structure



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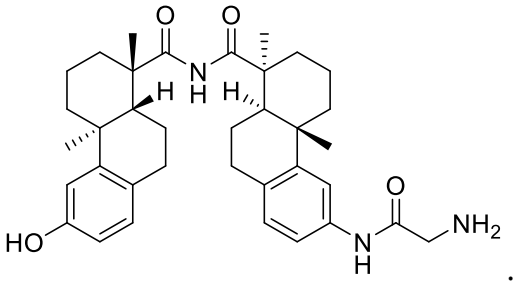
48. The compound of claim 1, having the structure



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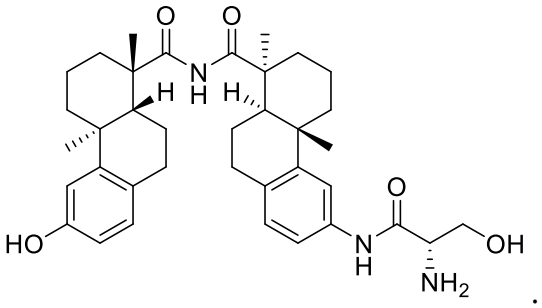
49. The compound of claim 1, having the structure



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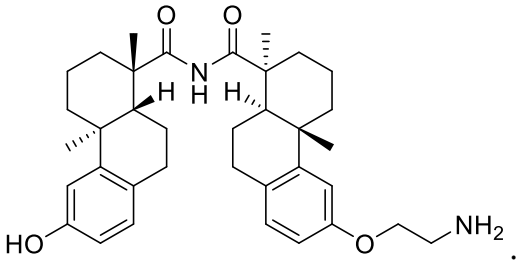
50. The compound of claim 1, having the structure



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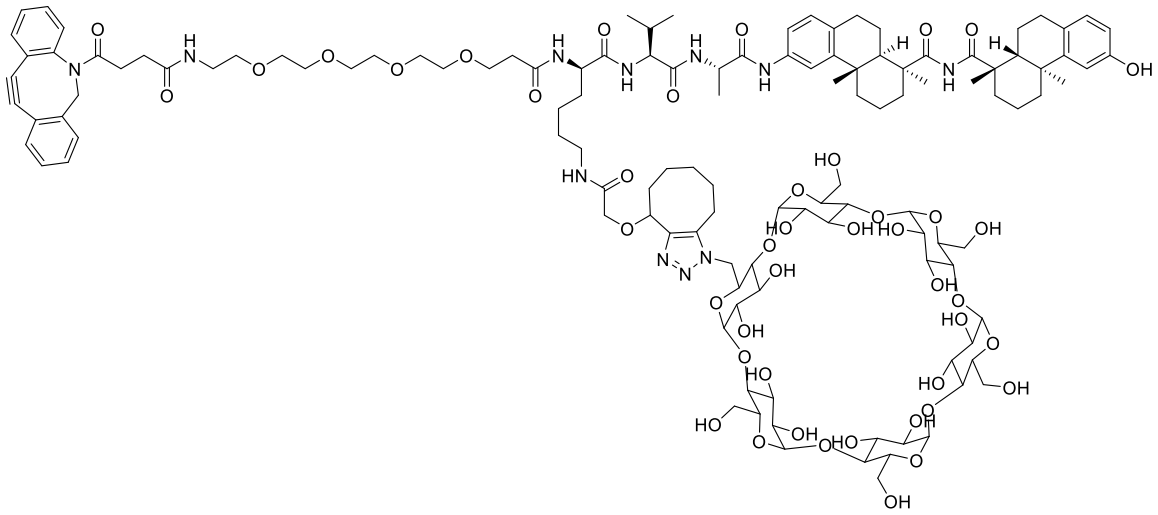
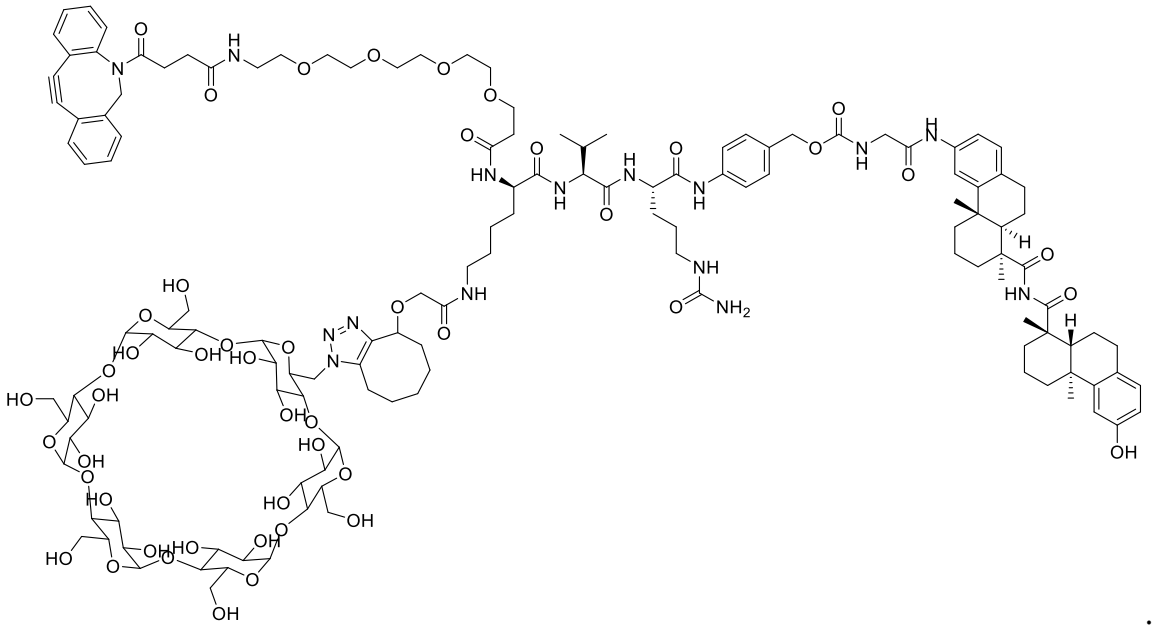
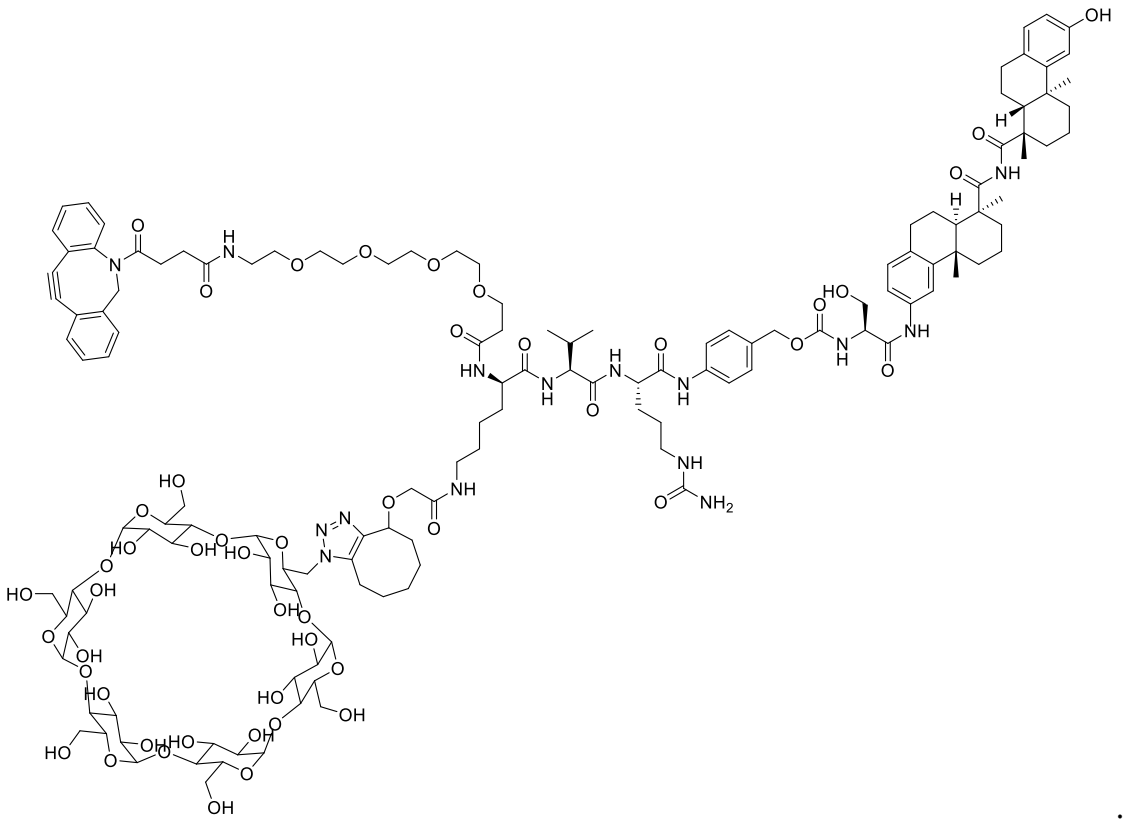
51. The linker-payload of claim 24, having the structure



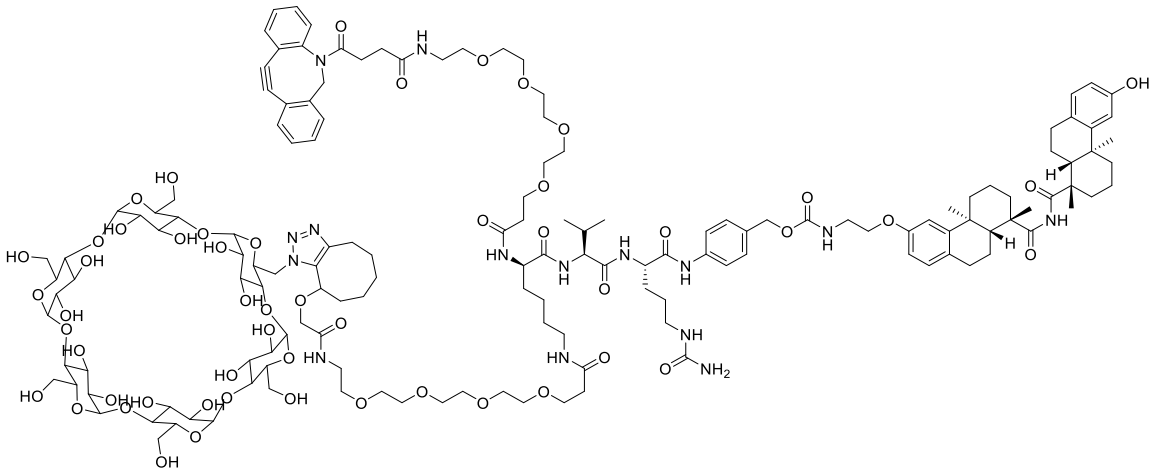
52. The linker-payload of claim 24, having the structure



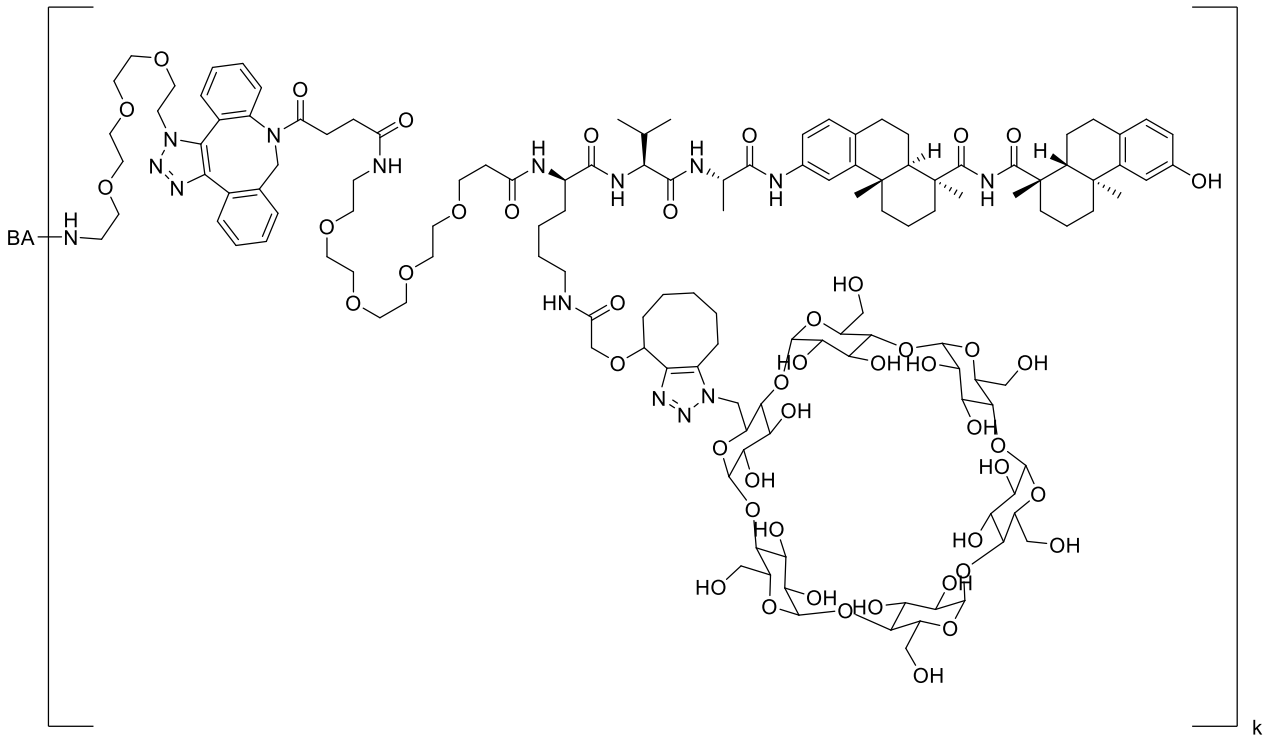
53. The linker-payload of claim 24, having the structure



54. The linker-payload of claim 24, having the structure



55. The compound of claim 28, having the structure



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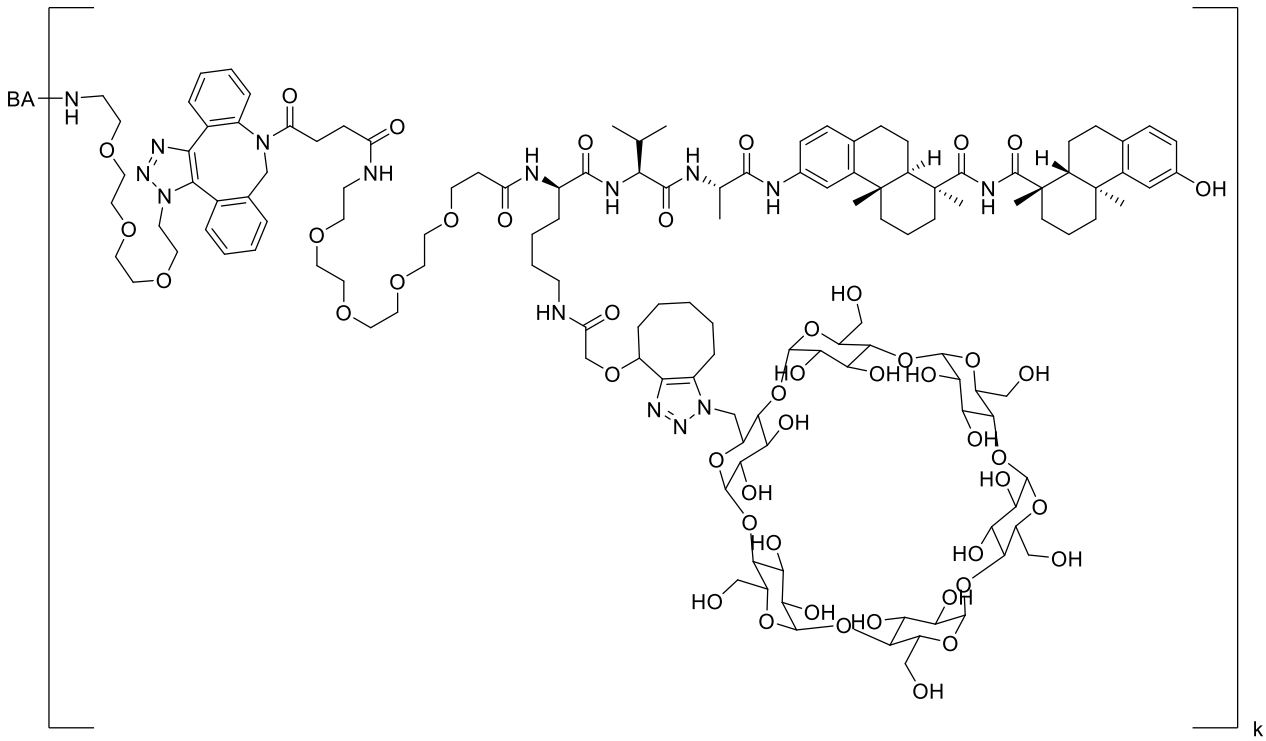
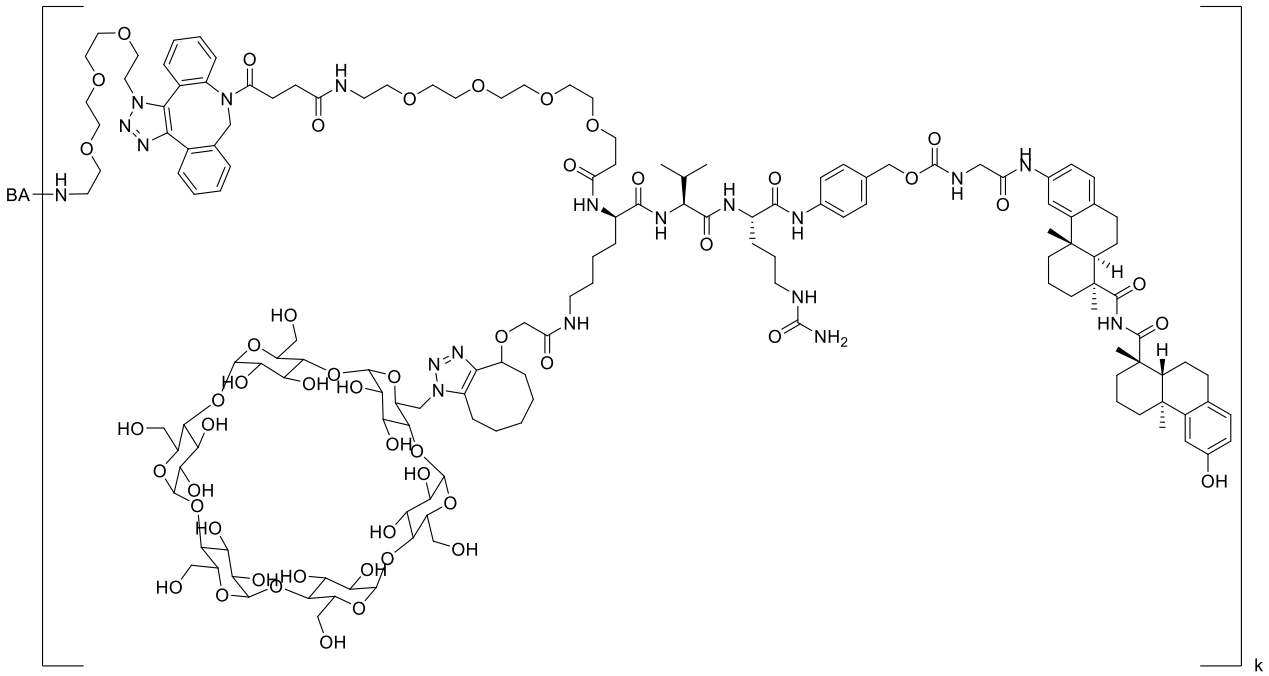
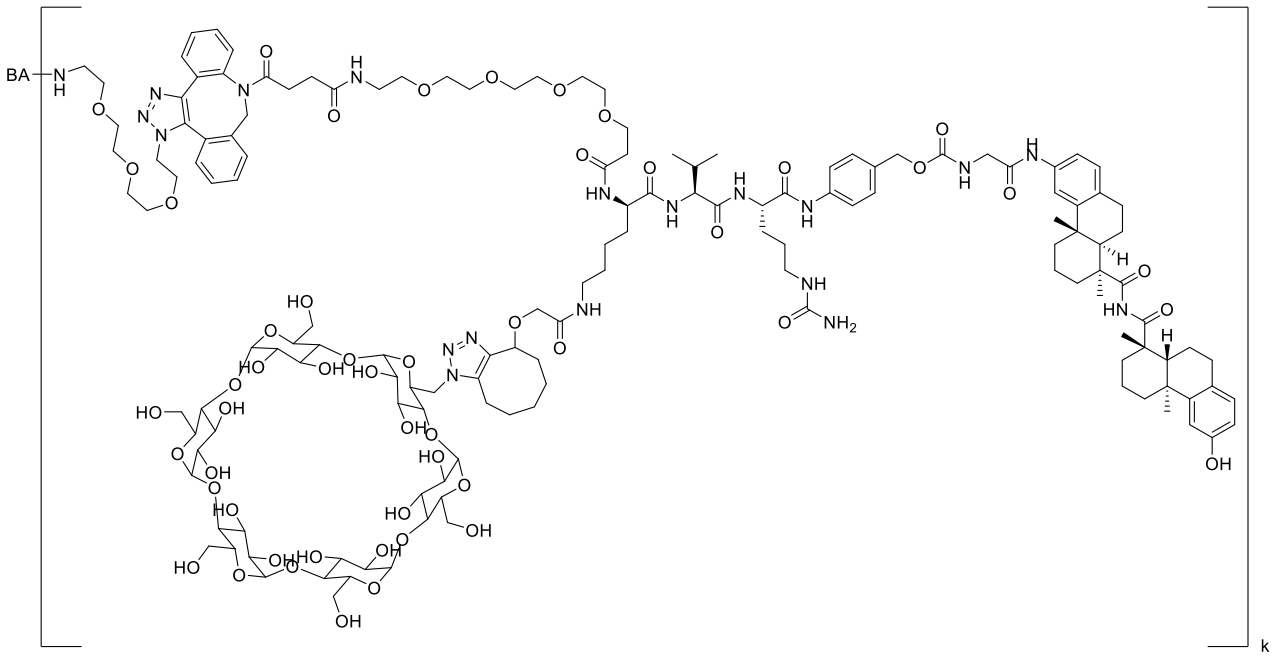


wherein **BA** is a binding agent; and **k** is an integer from one to thirty.

56. The compound of claim 28, having the structure

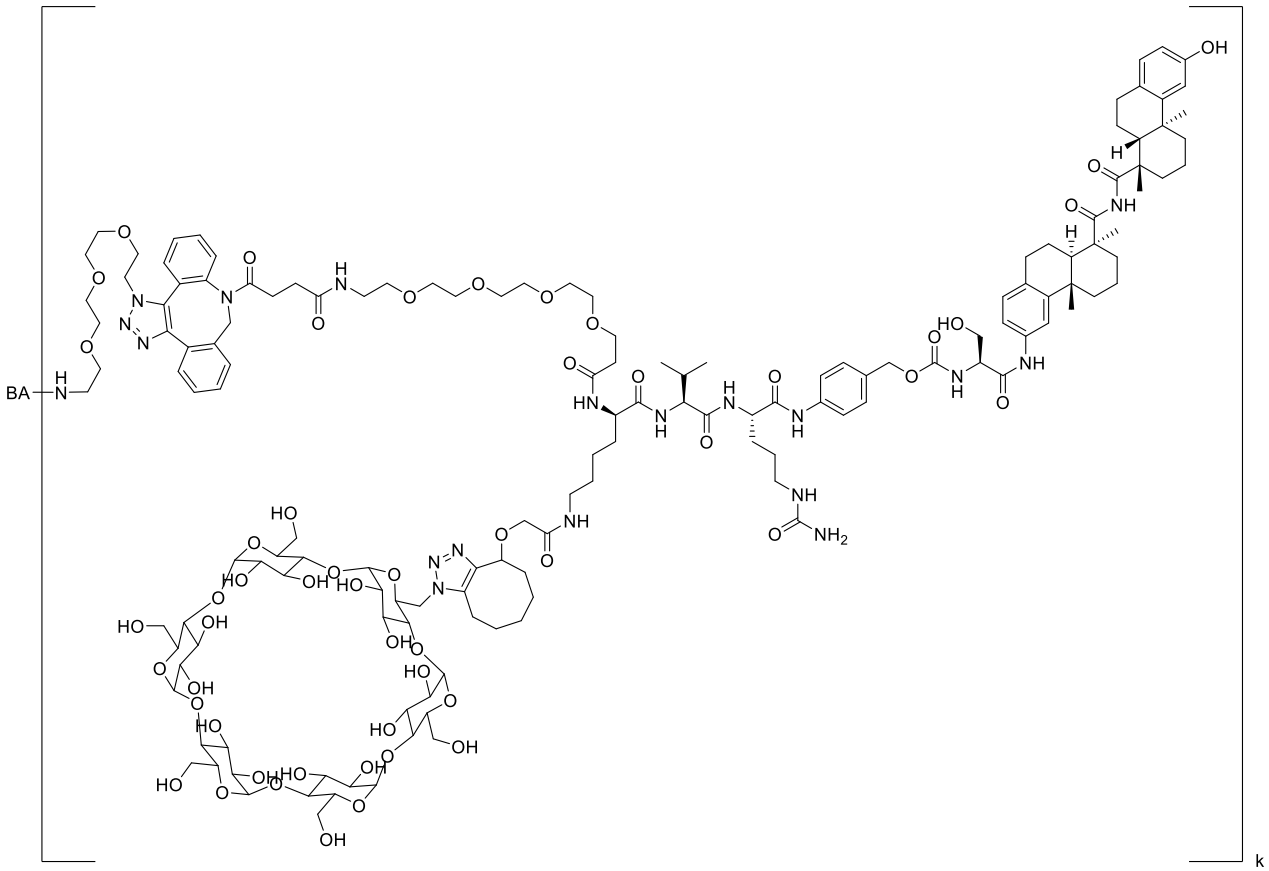


or



wherein **BA** is a binding agent; and **k** is an integer from one to thirty.

57. The compound of claim 28, having the structure



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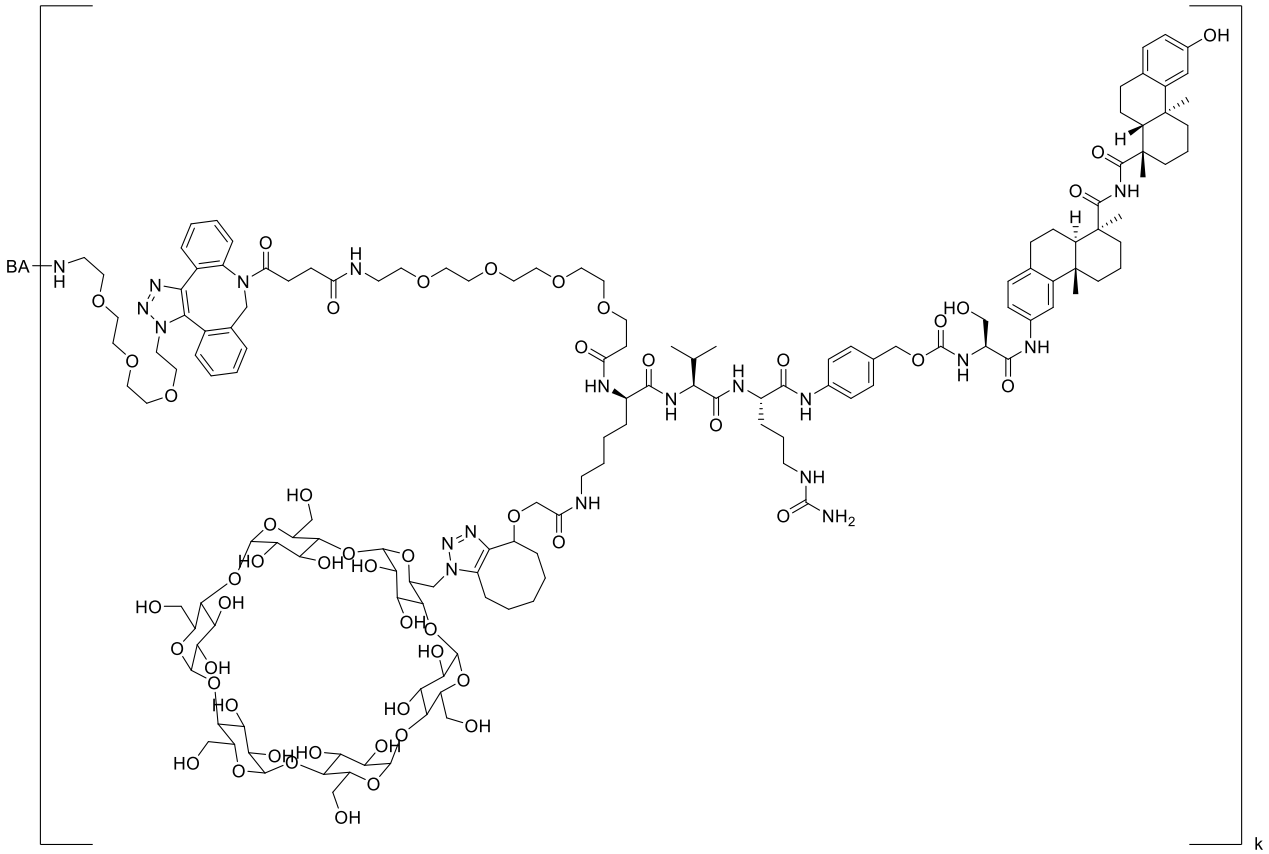
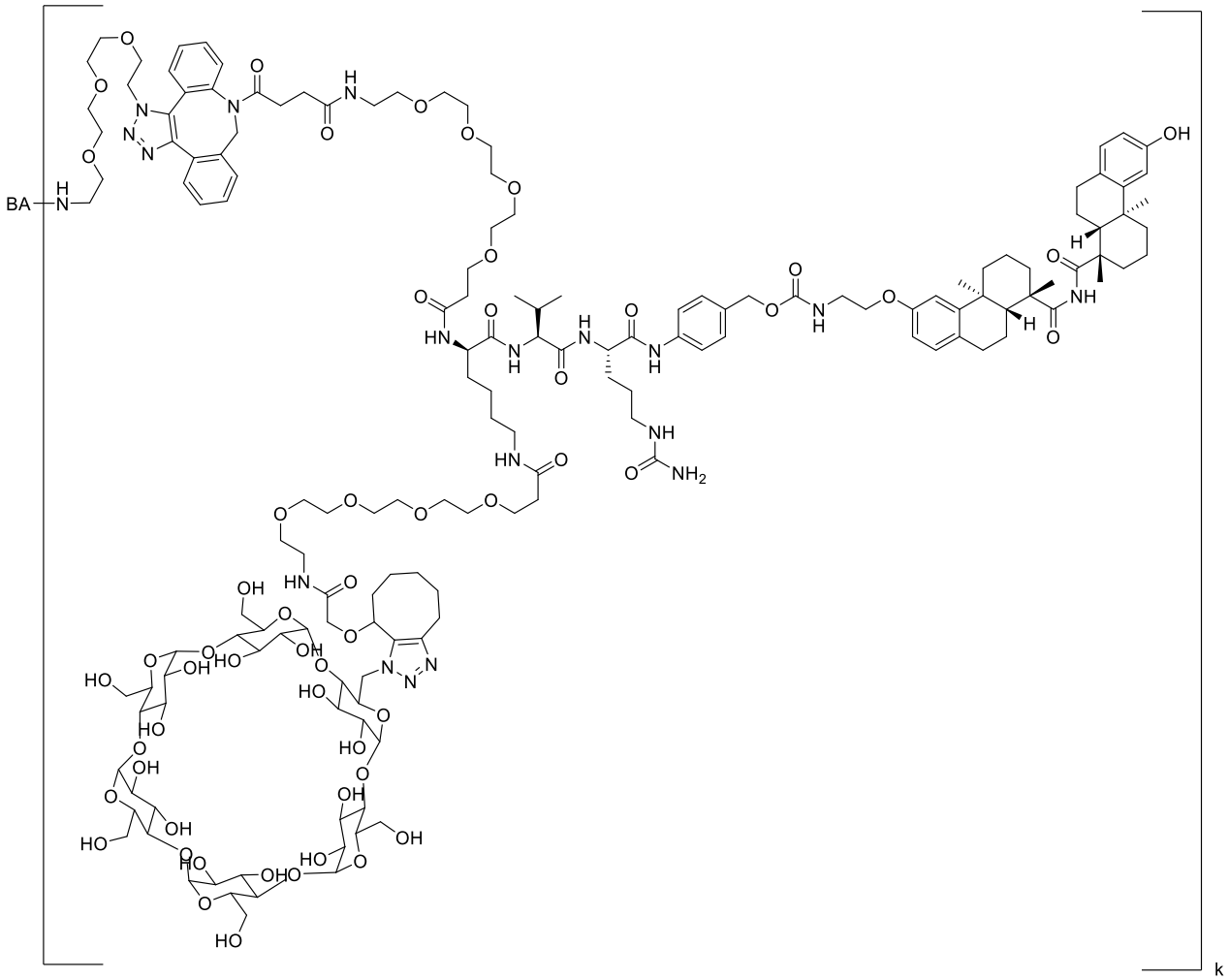
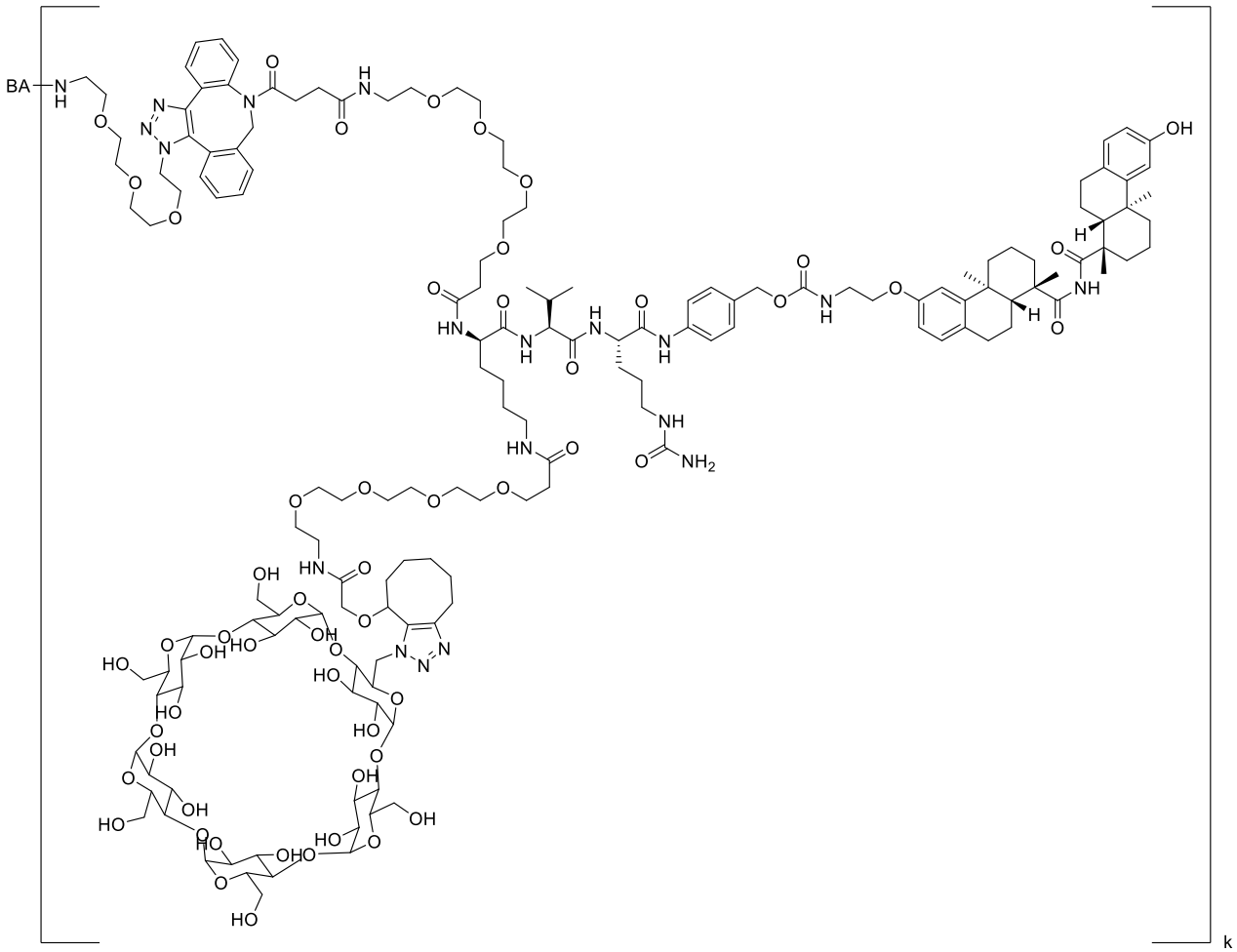


wherein **BA** is a binding agent; and **k** is an integer from one to thirty.

58. The compound of claim 28, having the structure

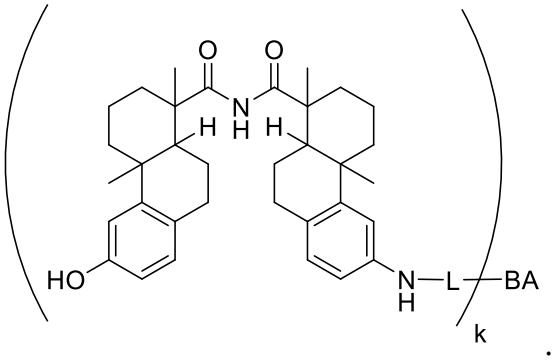


or



wherein **BA** is a binding agent; and **k** is an integer from one to thirty.

59. The compound of claim 28, having the following formula



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60. The compound, pharmaceutical composition, or composition, of any one of claims 28-46 or 55-59, wherein **BA** or **Ab** is a transglutaminase-modified antibody or antigen binding fragment thereof having:

binding specificity for an antigen selected from the group consisting of class A-J scavenger receptors;

binding specificity for an antigen selected from the group consisting of MSR1, MARCO, SRCL, SCARA5, COLEC12, CD36, LIMPII, SRBI, SRBII, CD68, LAMP, LOX-1, Dectin-

1, SREC-I, SREC-II, MEGF, CXCL16, Fasciclin, FEEL-1, FEEL-2, CD163, RAGE, C-type lectin superfamily members, DEC205, CD206, Dectin-2, Mincle, DC-SIGN, DNGR-1, VSIG4, CSF1R, ASGPR, and APLP-2;
binding specificity for Her2 or PRLR; or
binding specificity for MSR1; and/or

BA or **Ab** is a transglutaminase-modified antibody or antigen binding fragment thereof coupled via one or more ~~N295~~ Q295 residues, or one or more ~~N295~~ Q295 and N297Q residues.

61. The compound of claim 28, wherein **BA** is an antibody or antigen binding fragment thereof conjugated to a primary amine compound at a glutamine residue, and **L** is bonded to **BA** through the primary amine compound.

62. The compound of claim 61, wherein the primary amine compound comprises a divalent PEG group.

63. The compound of claim 62, wherein the primary amine compound is H_2N-$(CH_2CH_2O)_3$-$(CH_2)_2$-N_3.