

CLAIMS

1. A compound comprising a peptide and a substituent; wherein the amino acid sequence of the peptide is :

5 YX₂EGTFTSDYSIYLX₁₅X₁₆X₁₇AAX₂₀X₂₁FVX₂₄WLLX₂₈GGPX₃₂X₃₃X₃₄X₃₅X₃₆X₃₇X₃₈X₃₉
 (SEQ ID NO. : 15),
 with an optional amide modification of the C-terminus;
 wherein
 X₂ is Aib
 10 X₁₅ is D or E
 X₁₆ is E or K
 X₁₇ is Q or K
 X₂₀ is Aib
 X₂₁ is E or K
 15 X₂₄ is N or Q
 X₂₈ is A or E
 X₃₂ is S or absent
 X₃₃ is S or absent
 X₃₄ is G or absent
 20 X₃₅ is A or absent
 X₃₆ is P or absent
 X₃₇ is P or absent
 X₃₈ is P or absent
 X₃₉ is S or absent;
 25 and wherein the substituent is attached to the peptide via a Lysine (K) residue in position 16, 17 or 21;
 or a pharmaceutically acceptable salt hereof.
2. The compound according to claim 1, wherein X₃₆, X₃₇, X₃₈ and X₃₉ are absent.
 30
3. The compound according to claims 1 or 2, wherein X₃₂X₃₃X₃₄X₃₅ is SSGA.
4. The compound according to claim 1, wherein the amino acid sequence of the peptide is
 YX₂EGTFTSDYSIYLX₁₅X₁₆X₁₇AAX₂₀X₂₁FVX₂₄WLLX₂₈GGPSSGA (SEQ ID NO.: 16)
 35 wherein

X₂ is Aib

X₁₅ is D or E

X₁₆ is E or K

X₁₇ is Q or K

5

X₂₀ is Aib

X₂₁ is E or K

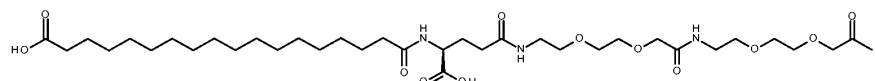
X₂₄ is N or Q

X₂₈ is A or E.

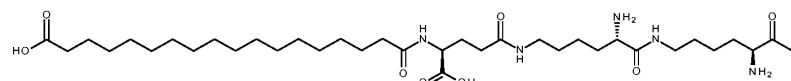
- 10 5. The compound according to any of the previous claims, wherein X₁₆X₁₇AAX₂₀X₂₁ is selected from the group consisting of: KQAAAibE, KKAAAibE, KQAAAibK and EQAAAibK.
- 15 6. The compound according to claim 1, wherein the amino acid sequence of the peptide is any one of SEQ ID NO.: 2, 3, 7, 8, 9, 10, 11, 12, 13 and 14.
7. The compound according to claim 0, wherein the peptide has the amide modification of the C-terminus.
- 20 8. The compound according to any of the previous claims 1-11, wherein the substituent is attached via 16Lys.
9. The compound according to any of the claims 1-14, wherein the substituent is selected from the group consisting of:

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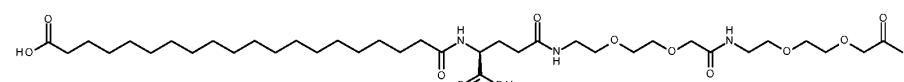
A:



B:



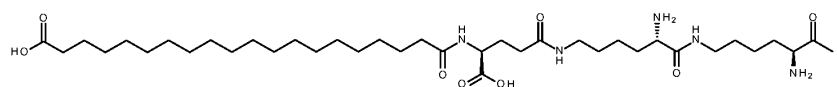
C:



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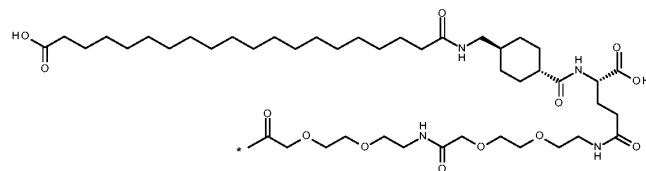
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D:



1

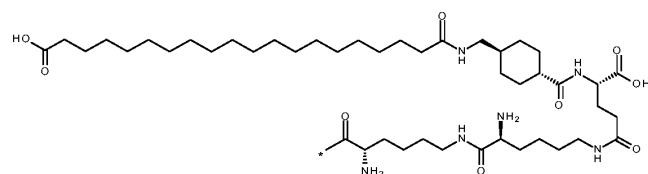
E:



1

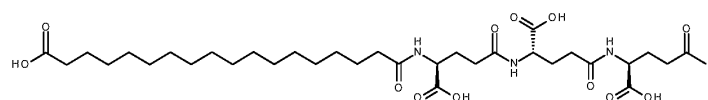
5

F:



and

G:

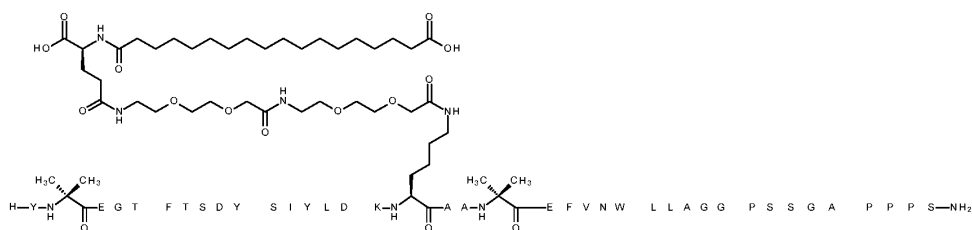


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10. The compound according to claim 1, wherein the compound is selected from the group consisting of:

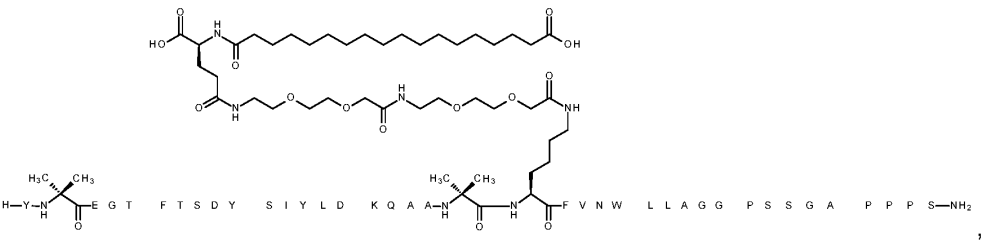
Compound #4



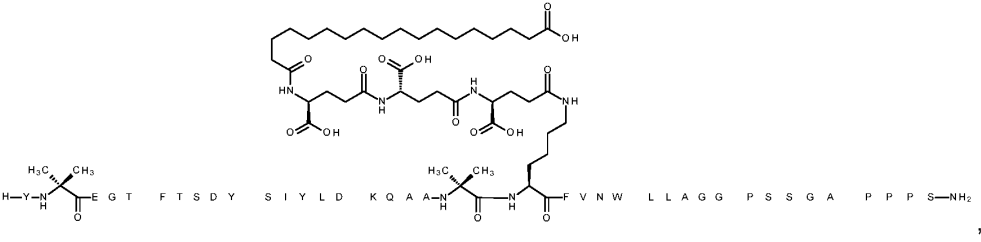
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Compound #5

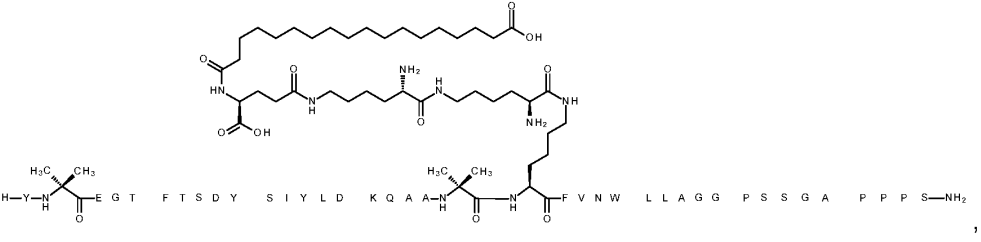
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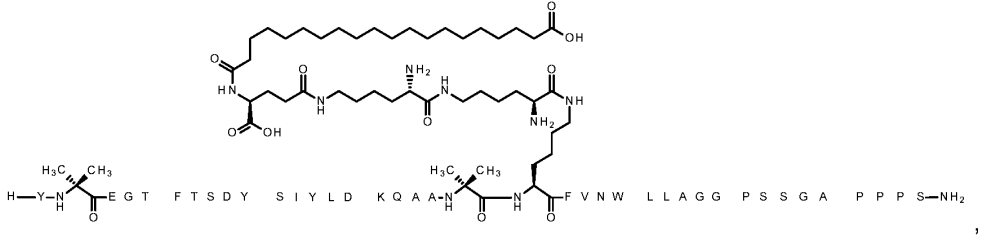
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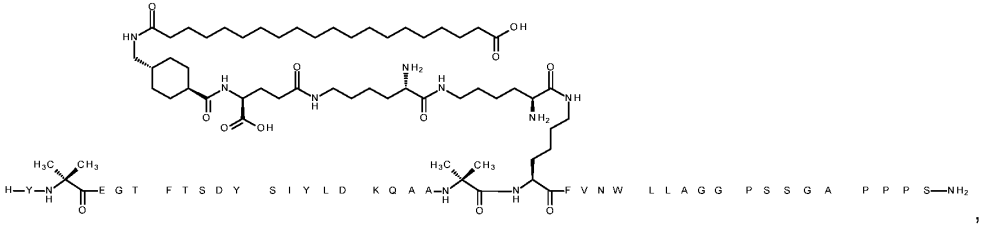
Compound #9



Compound #13

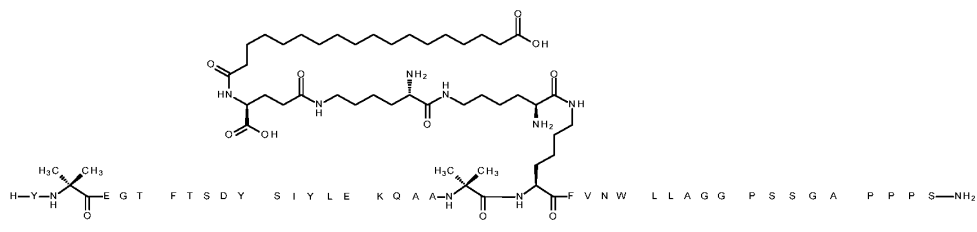


Compound #14

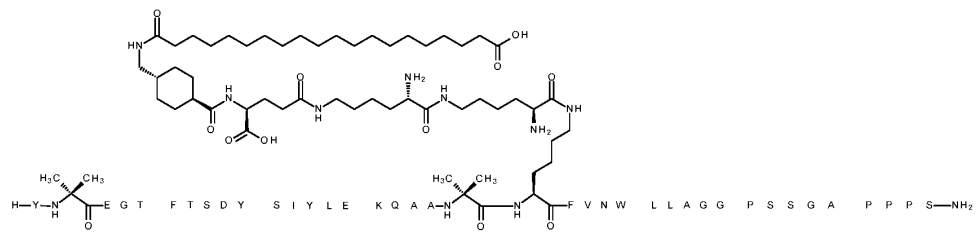


Compound #15

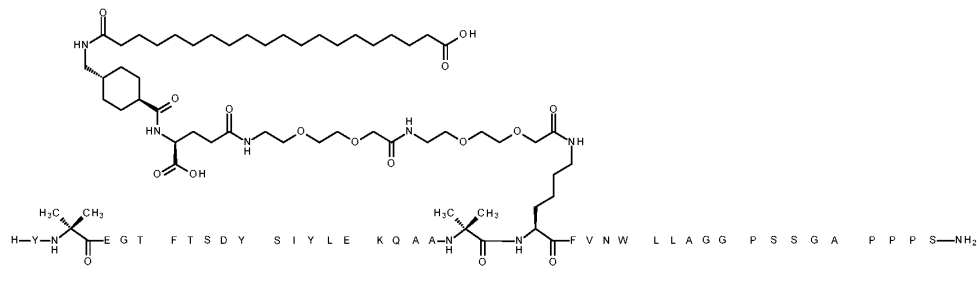
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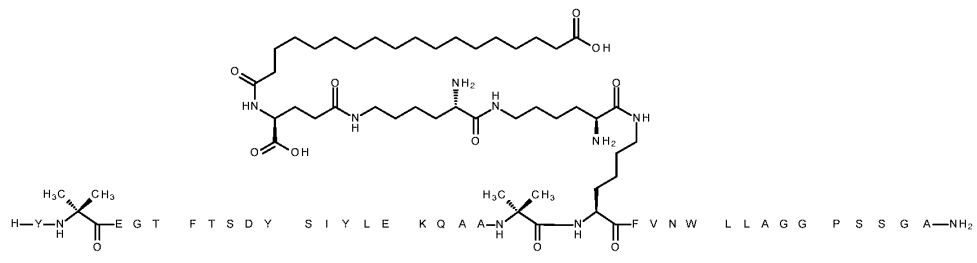
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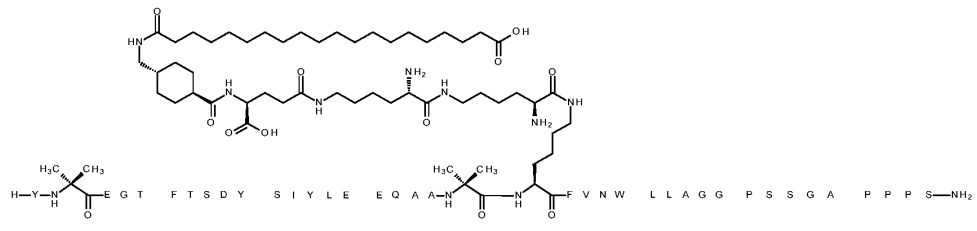
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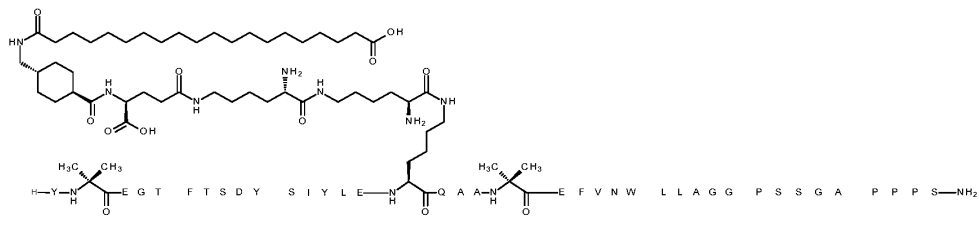
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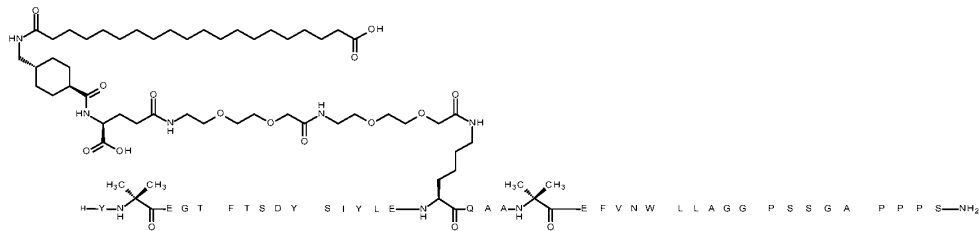
Compound #19



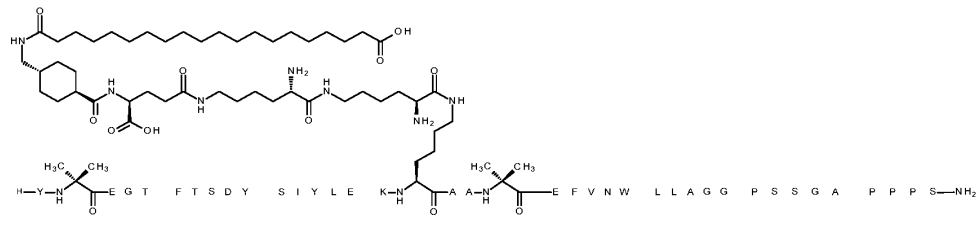
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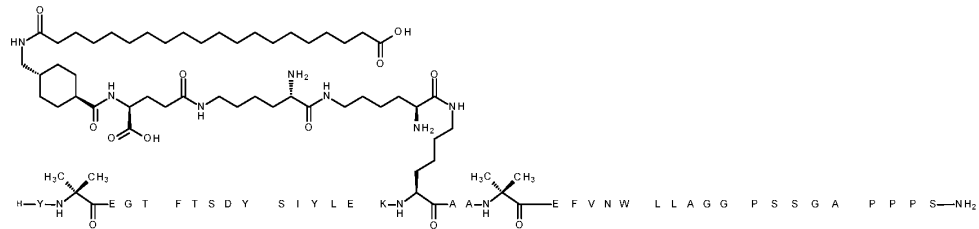
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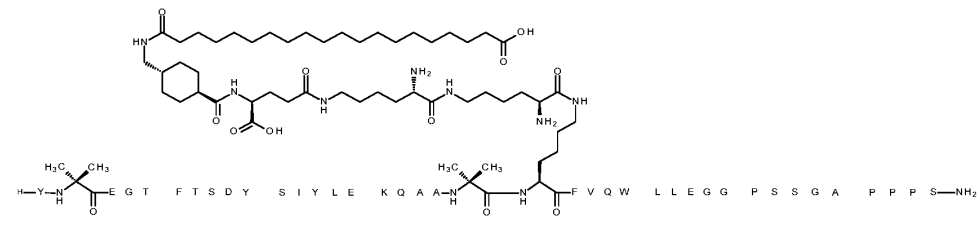
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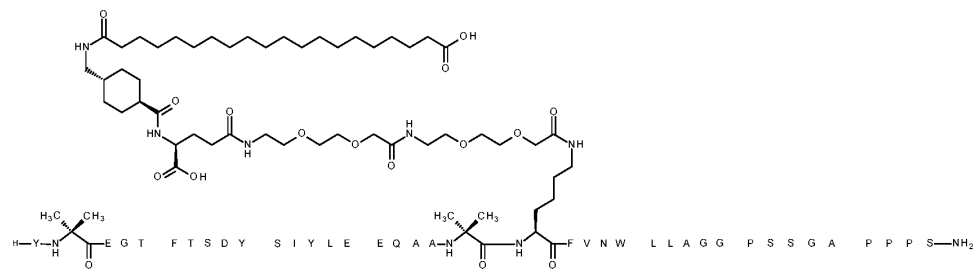
Compound #23



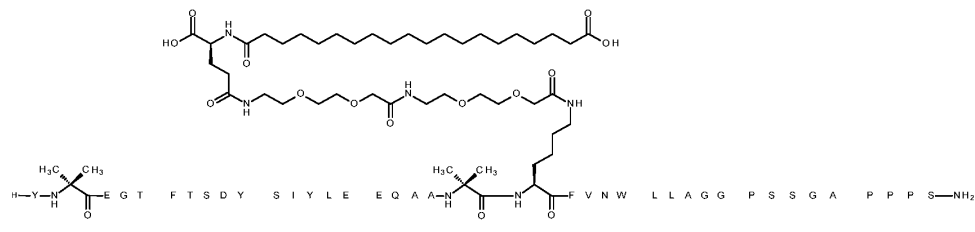
Compound #24



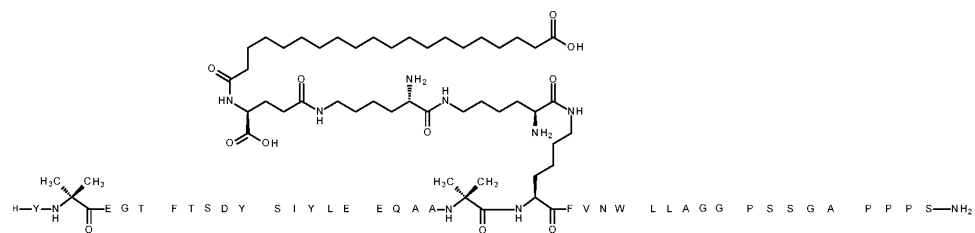
Compound #25



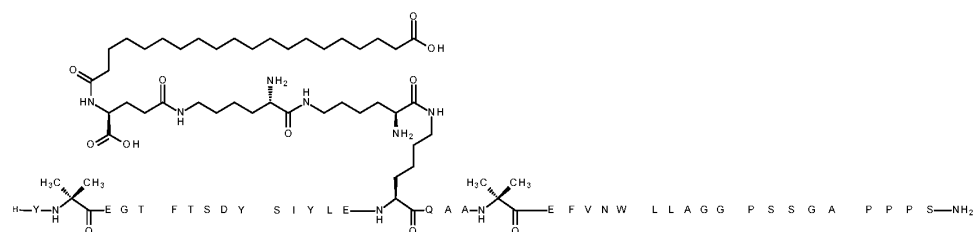
Compound #26



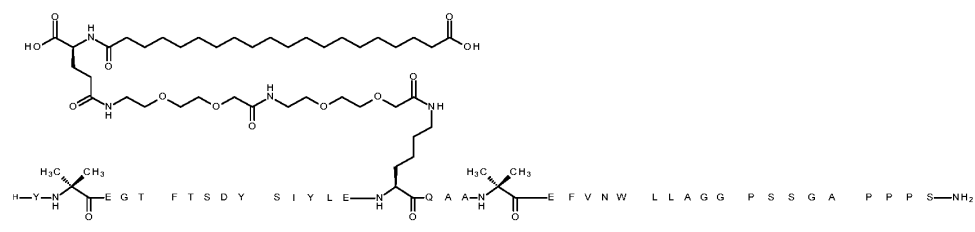
Compound #27



Compound #28

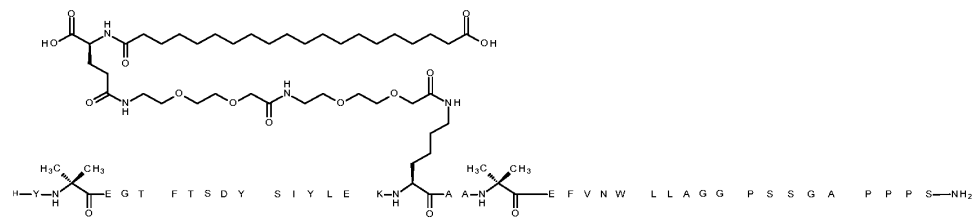


Compound #29

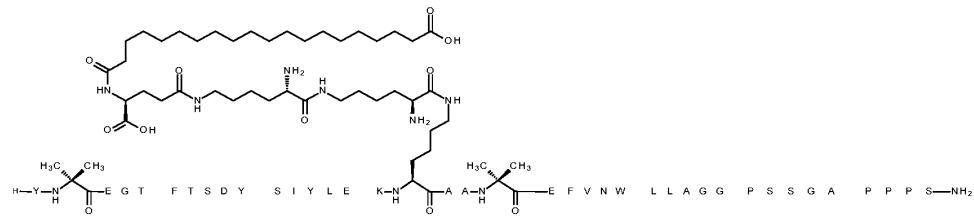


Compound #30

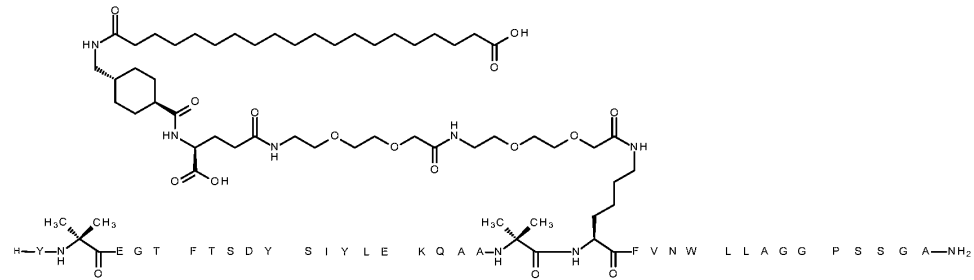
81



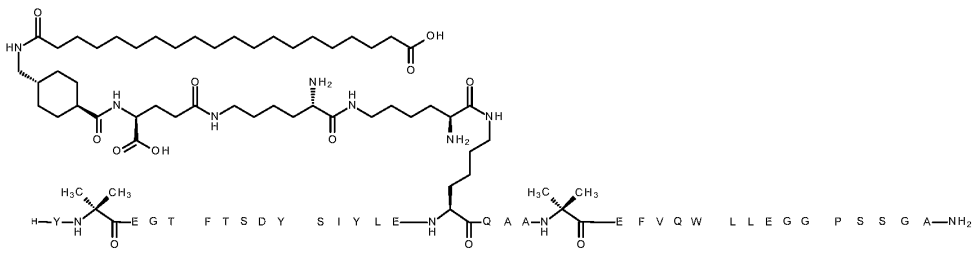
Compound #31



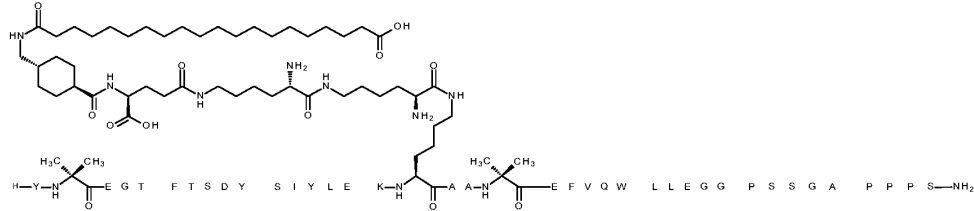
Compound #32



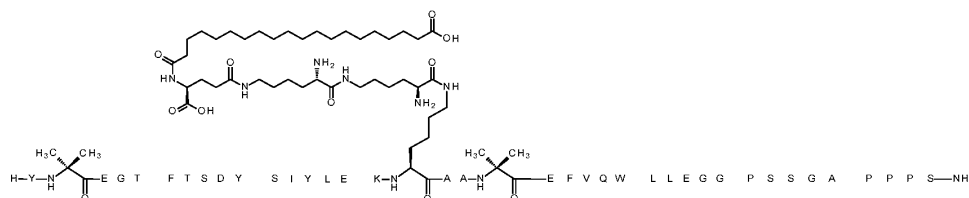
Compound #33



Compound #34



and

Compound #35

11. A compound according to any of the previous claims for use as a medicament.

12. A pharmaceutical composition comprising a compound according to any of the previous
5 claims for prevention and/or treatment of diabetes and/or obesity.

13. A pharmaceutical composition comprising a compound according to any of the previous
claims for prevention and/or treatment of liver disorders, such as hepatic steatosis, non-
alcoholic fatty liver disease (NAFLD), non-alcoholic steatohepatitis (NASH) liver
10 inflammation and/or fatty liver.

14. A peptide having the amino acid sequence:

YX₂EGTFTSDYSIYLX₁₅X₁₆X₁₇AAX₂₀X₂₁FVX₂₄WLLX₂₈GGPX₃₂X₃₃X₃₄X₃₅X₃₆X₃₇X₃₈X₃₉
(SEQ ID NO. : 15),

15 with an optional amide modification of the C-terminus wherein

X₂ is Aib

X₁₅ is D or E

X₁₆ is E or K

X₁₇ is Q or K

20 X₂₀ is Aib

X₂₁ is E or K

X₂₄ is N or Q

X₂₈ is A or E

X₃₂ is S or absent

25 X₃₃ is S or absent

X₃₄ is G or absent

X₃₅ is A or absent

X₃₆ is P or absent

X₃₇ is P or absent

X₃₈ is P or absent

X₃₉ is S or absent.

- 5 15. The peptide according to claim 14, wherein the amino acid sequence of the peptide is any one of SEQ ID NO.: 2, 3, 7, 8, 9, 10, 11, 12, 13 and 14.