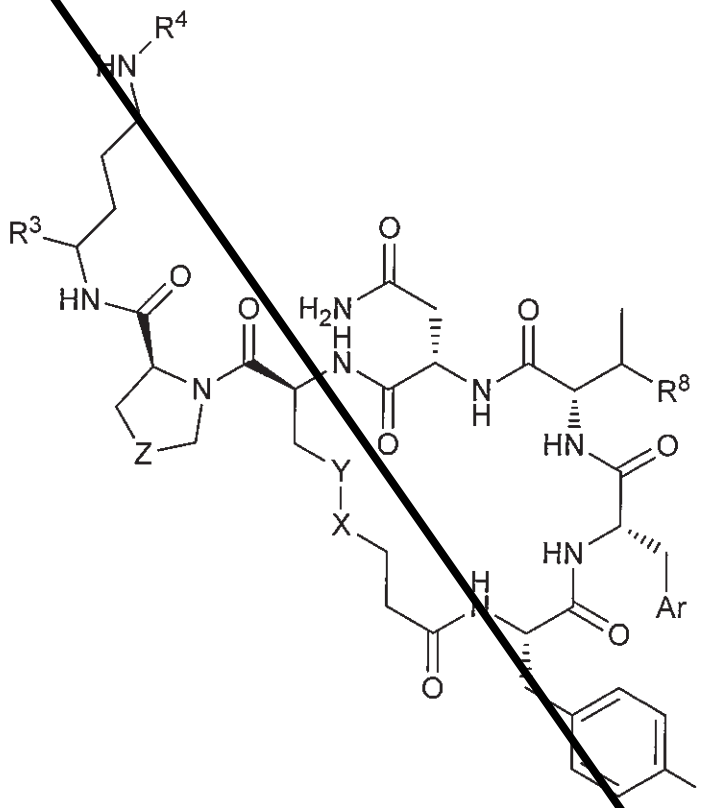
CLAIMS

A compound of formula I:



, or a pharmaceutically acceptable salt thereof, wherein:

R^2 is H, C_1-C_4 alkyl, halogen, –OH or –O–C_1-C_4 alkyl;

R^3 is H or –CH_2-OH or –C(O)-NR^5R^6;

R^4 is H or –C(=NH)-NH_2;

R^5 and R^6 are independently H, C_1-C_6 alkyl, -CH_2-cyclopropyl, -cyclopropyl, or arylalkyl, with the proviso that R^5 and R^6 are not both H;

X and Y are independently –CH_2– or –S– with the proviso that if X is –CH_2–, Y is not –CH_2–;

Z is -CHR^7- or S and R^7 is H or C_1-C_4 alkyl, halogen, –OH or –O–C_1-C_4 alkyl;

R^8 is H or -CH_3;

Ar is heteroaryl or phenyl optionally substituted with one C_1-C_4 alkyl, halogen, –OH or –O–C_1-C_4 alkyl.

2. The compound of claim 1 wherein R_5 and R_6 are independently H, C_1-C_6 alkyl or arylalkyl.

3. The compound of claim 1 wherein only one of X and Y is –S–.

4. The compound of claim 1 wherein X is $–CH_2–$.

5. The compound of claim 1 wherein X and Y are both –S–.

6. The compound according to any one of claims 1-5 wherein Ar is thiophene.

7. The compound according to any one of claims 1-6 wherein R^8 is $-CH_3$.

8. The compound according to any one of claims 1-7 wherein R^3 is $–C(O)-NR^5R^6$.

9. The compound according to any one of claims 1-8 wherein R^5 is H and R^6 is C_1-C_4 alkyl.

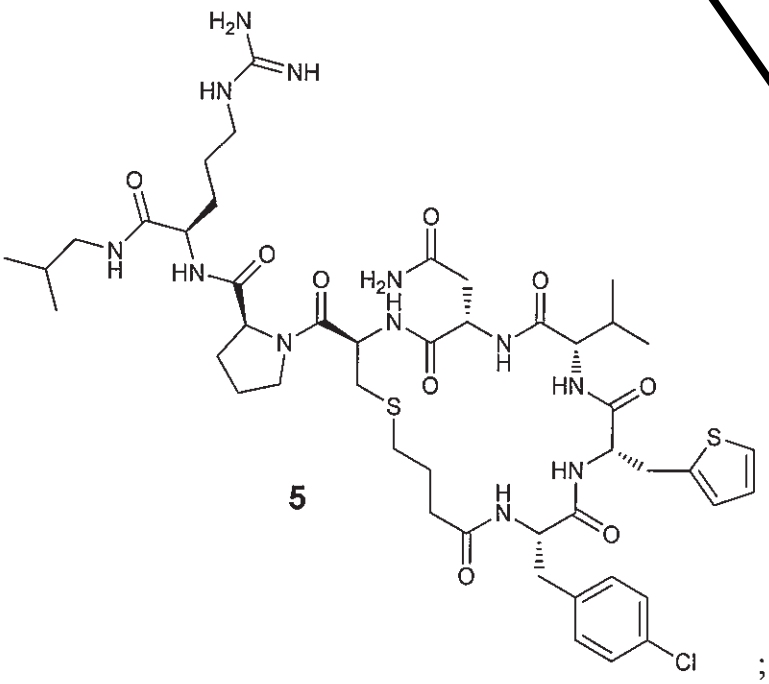
10. The compound according to any one of claims 1-8 wherein both of R^5 and R^6 is $–CH_2CH_3$.

11. The compound according to any one of claims 1-10 wherein R^2 is a halogen.

12. The compound of claim 11 wherein R^2 is –Cl.

13. The compound of claim 11 wherein R^2 is –F.

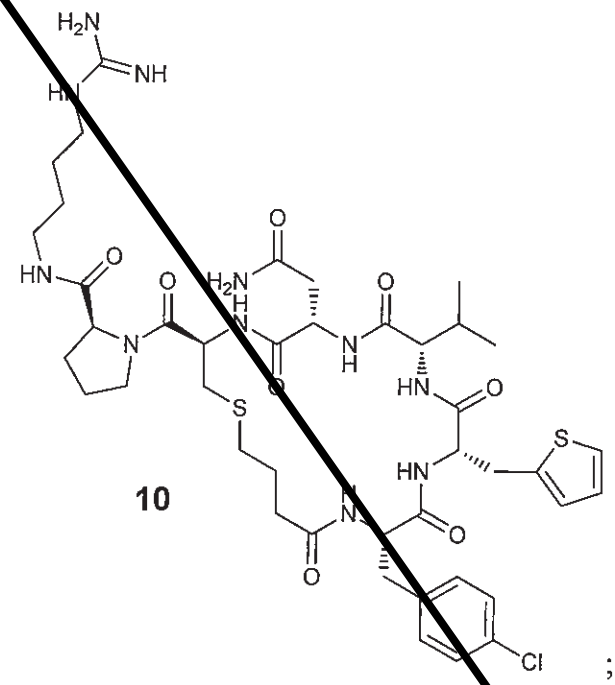
14. The compound of claim 1 which is: compound 5



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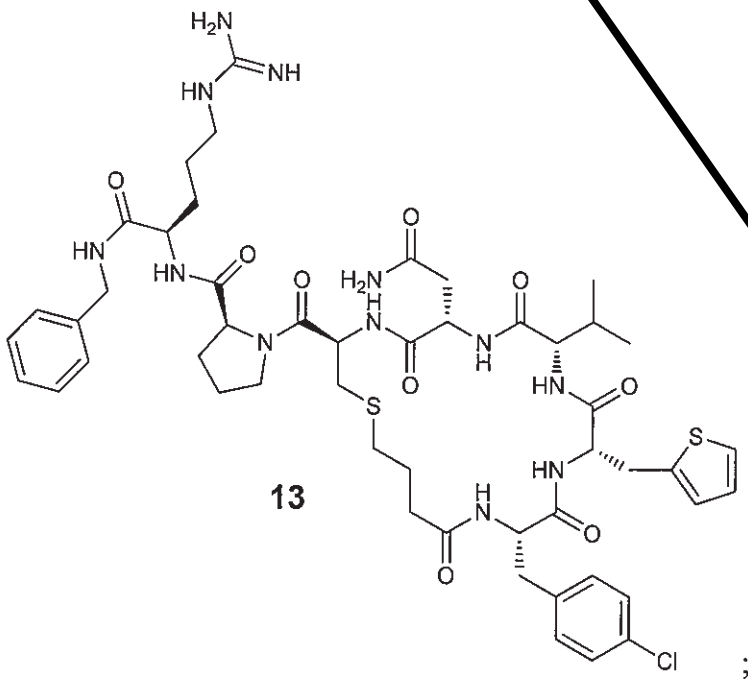
;

compound 10



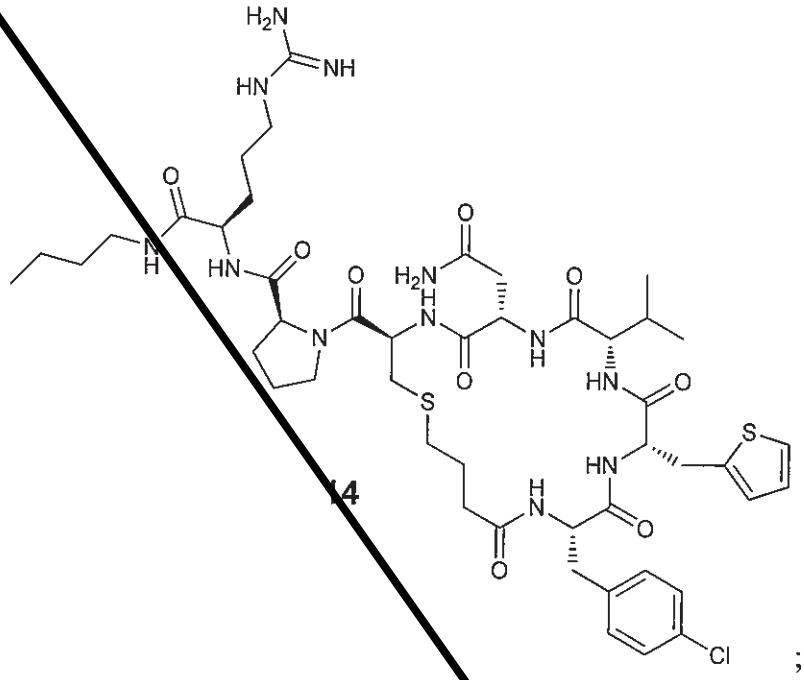
10 ;

compound 13



13 ;

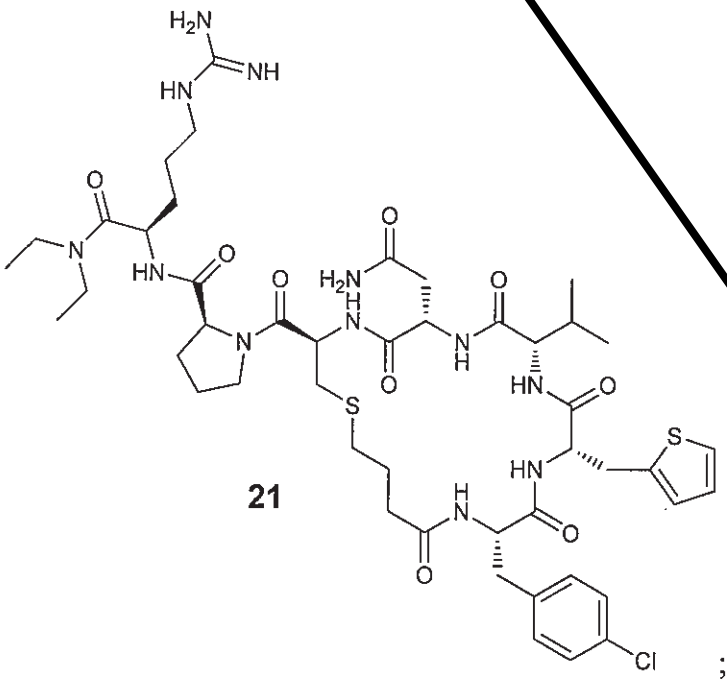
compound 14



14

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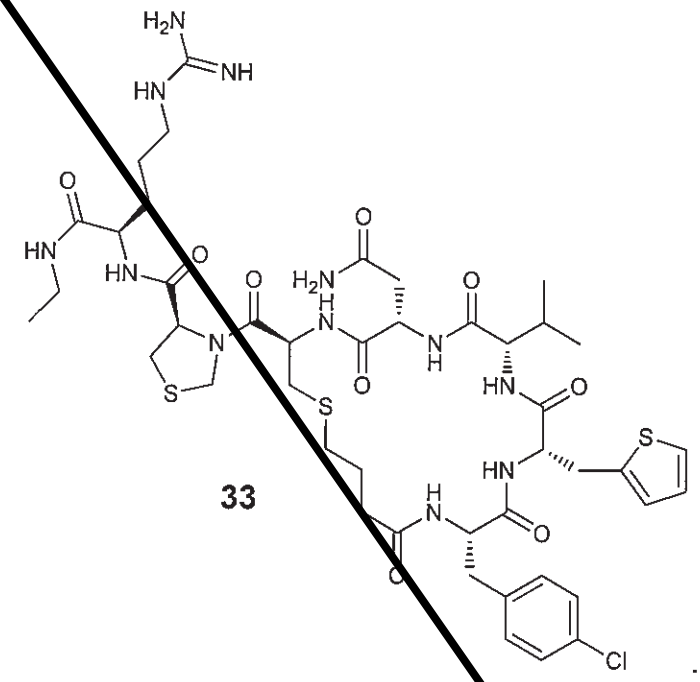
compound 21



21

; or

compound 33



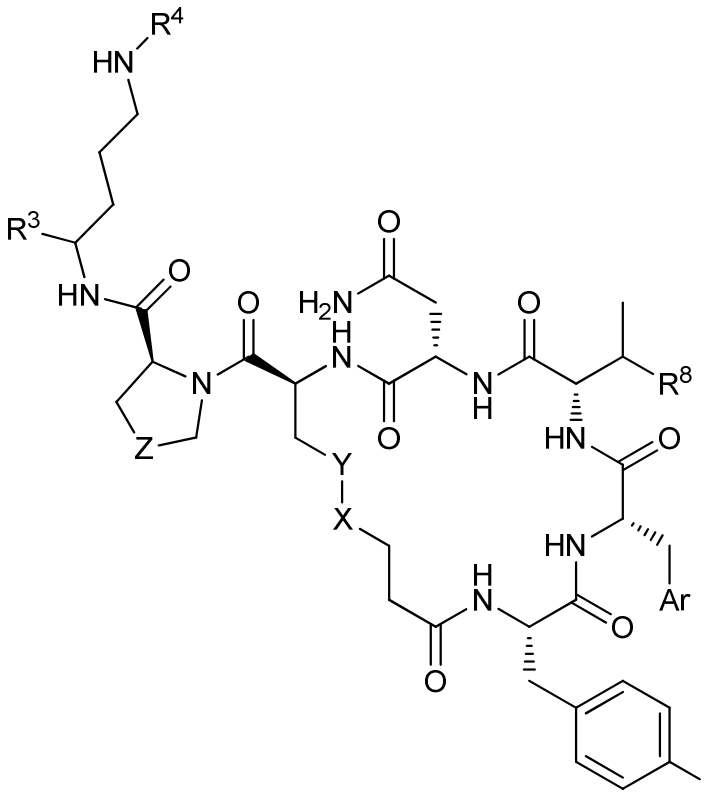
33

15. A pharmaceutical composition comprising a compound according to any of claims 1-14 for use in the treatment of diabetes insipidus, primary nocturnal enuresis, or nocturia.

16. Use of a compound according to any of claims 1-14 in the manufacture of a medicament for the treatment of diabetes insipidus, primary nocturnal enuresis, or nocturia.

CLAIMS

1. A compound of formula I:



, or a pharmaceutically acceptable salt thereof, wherein:

R^2 is H, C_1-C_4 alkyl, halogen, –OH or –O–C_1-C_4 alkyl;

R^3 is H or –CH_2-OH or –C(O)-NR^5R^6;

R^4 is H or –C(=NH)-NH_2;

R^5 and R^6 are independently H, C_1-C_6 alkyl, -CH_2-cyclopropyl, -cyclopropyl, or arylalkyl, with the proviso that R^5 and R^6 are not both H;

X and Y are independently –CH_2– or –S– with the proviso that if X is –CH_2–, Y is not –CH_2–;

Z is -CHR^7- or S and R^7 is H or C_1-C_4 alkyl, halogen, –OH or –O–C_1-C_4 alkyl;

R^8 is H or -CH_3;

Ar is heteroaryl or phenyl optionally substituted with one C_1-C_4 alkyl, halogen, –OH or –O–C_1-C_4 alkyl.

2. The compound of claim 1 wherein R^5 and R^6 are independently H, C_1-C_6 alkyl or arylalkyl.

3. The compound of claim 1 wherein only one of X and Y is –S–.

4. The compound of claim 1 wherein X is $–CH_2–$.

5. The compound of claim 1 wherein X and Y are both –S–.

6. The compound according to any one of claims 1-5 wherein Ar is thiophene.

7. The compound according to any one of claims 1-6 wherein R^8 is $-CH_3$.

8. The compound according to any one of claims 1-7 wherein R^3 is $–C(O)-NR^5R^6$.

9. The compound according to any one of claims 1-8 wherein R^5 is H and R^6 is C_1-C_4 alkyl.

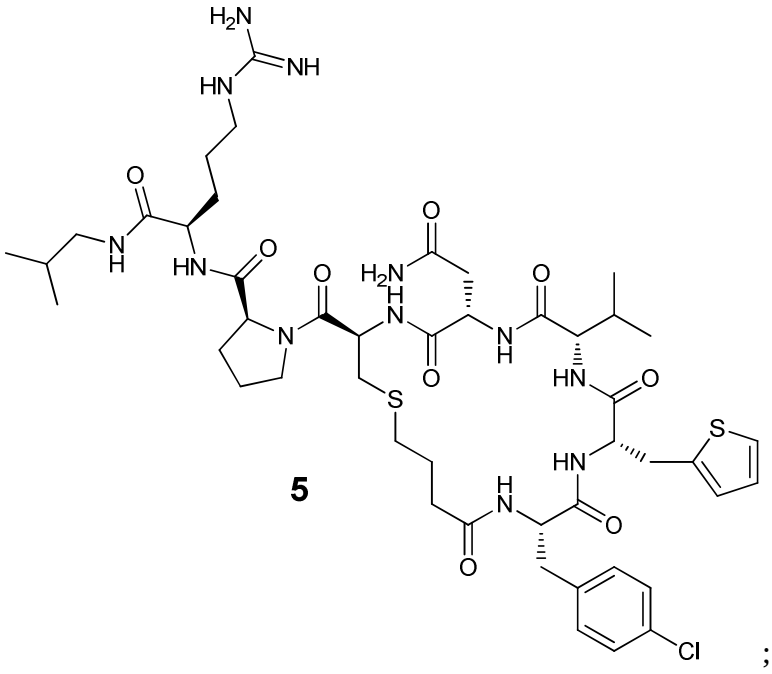
10. The compound according to any one of claims 1-8 wherein both of R^5 and R^6 is $–CH_2CH_3$.

11. The compound according to any one of claims 1-10 wherein R^2 is a halogen.

12. The compound of claim 11 wherein R^2 is –Cl.

13. The compound of claim 11 wherein R^2 is –F.

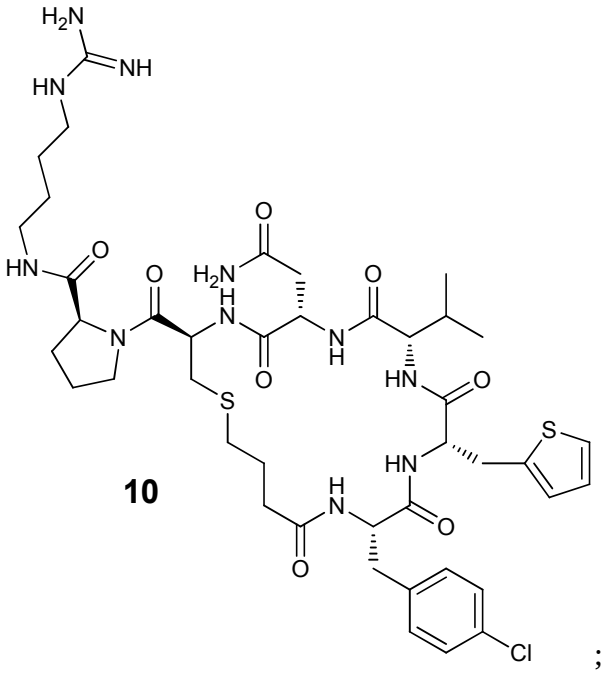
14. The compound of claim 1 which is: compound 5



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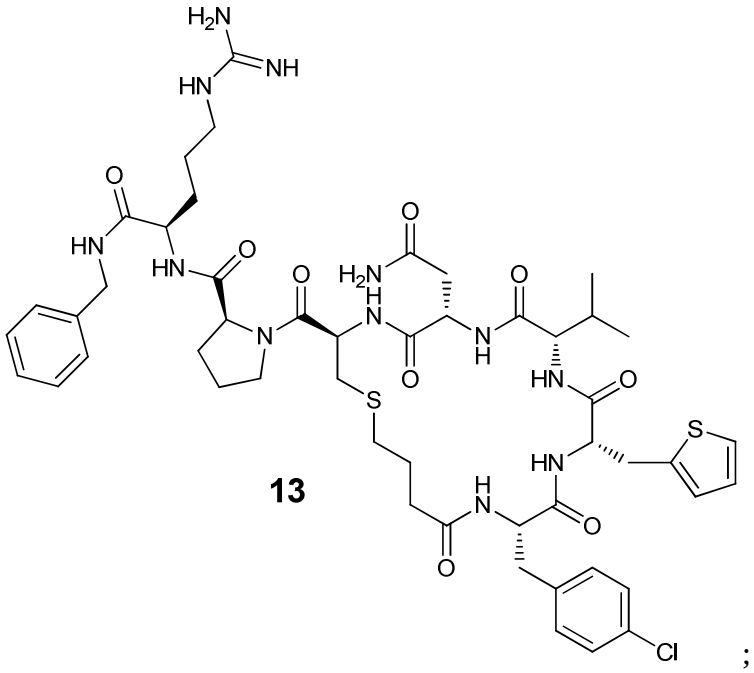
compound 10



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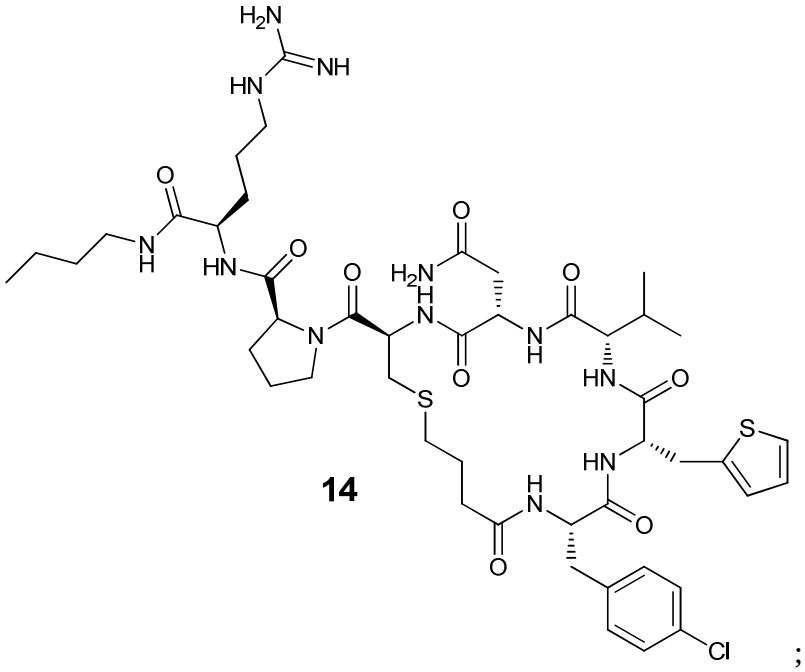
compound 13



13

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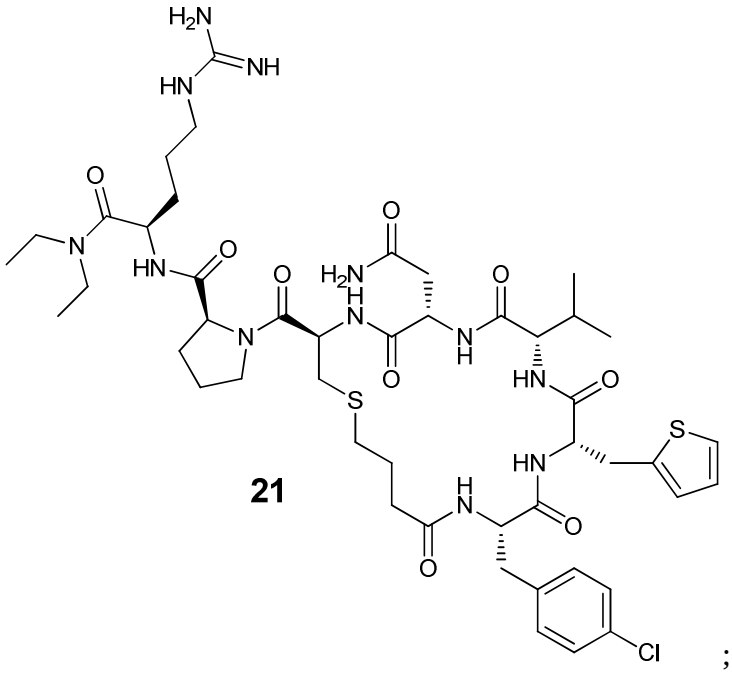
compound 14



14

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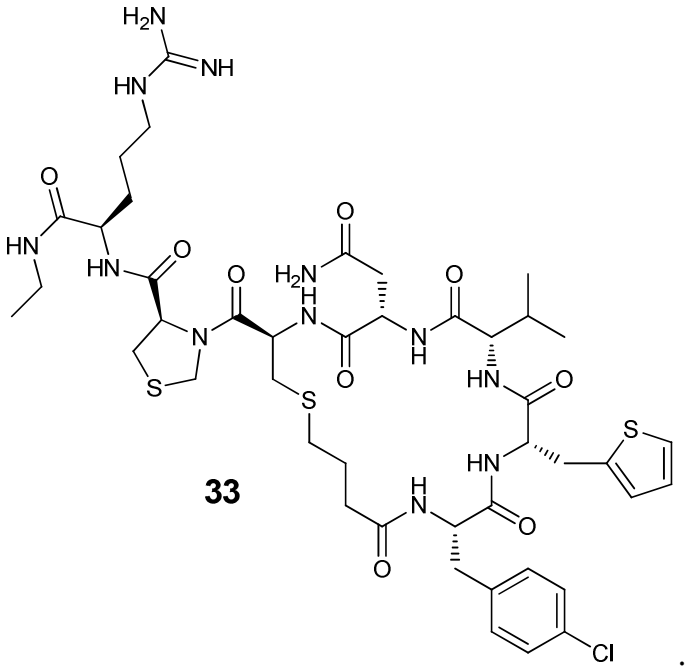
compound 21



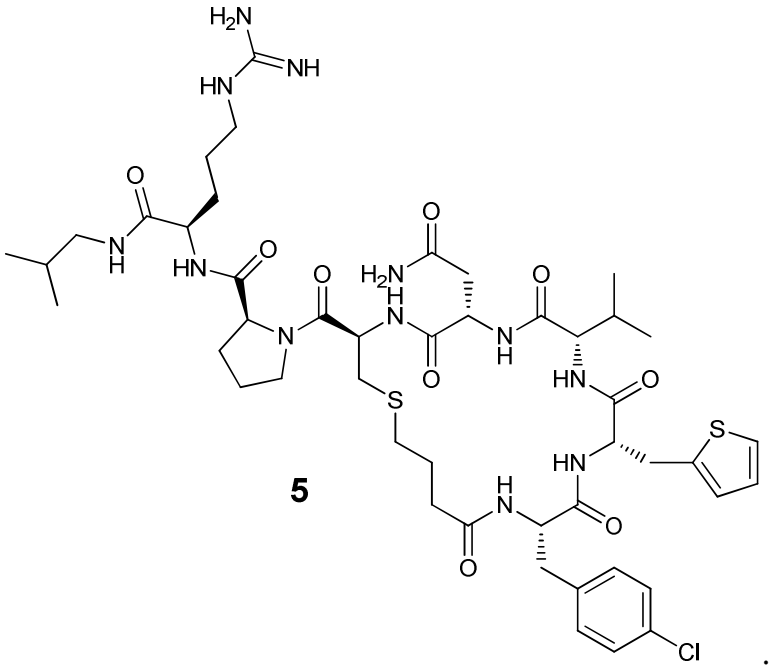
21

; or

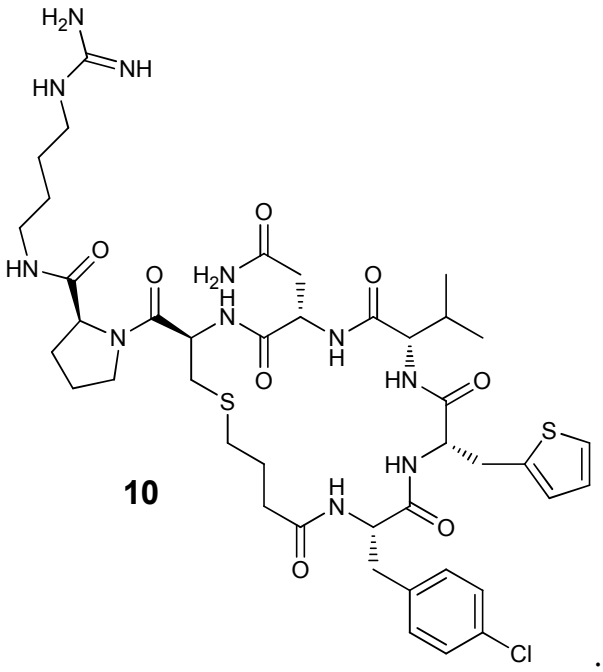
compound 33



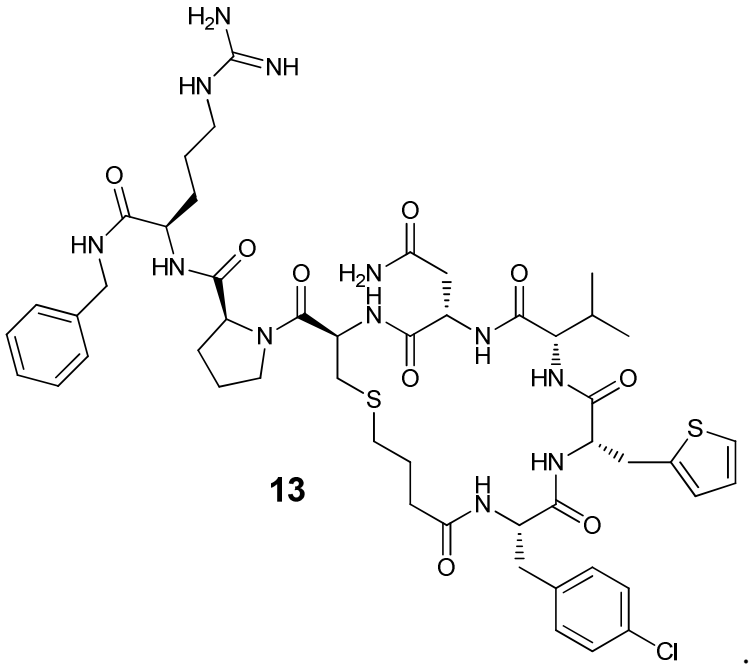
15. The compound of claim 1 which is compound 5:



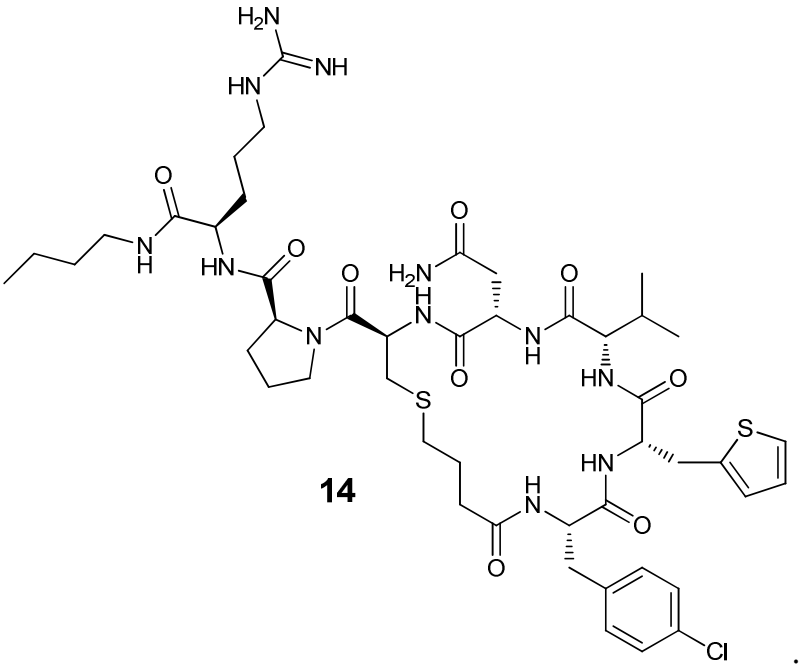
16. The compound of claim 1 which is compound 10:



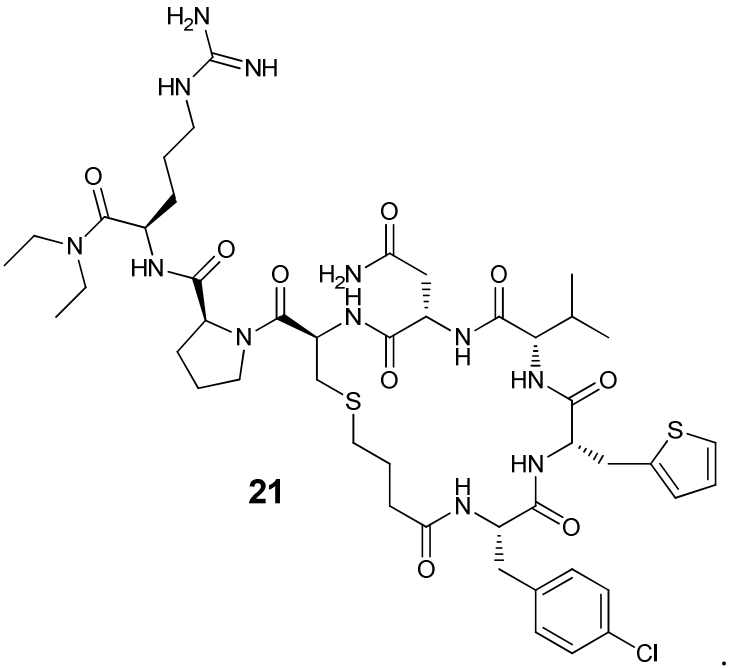
17. The compound of claim 1 which is compound 13:



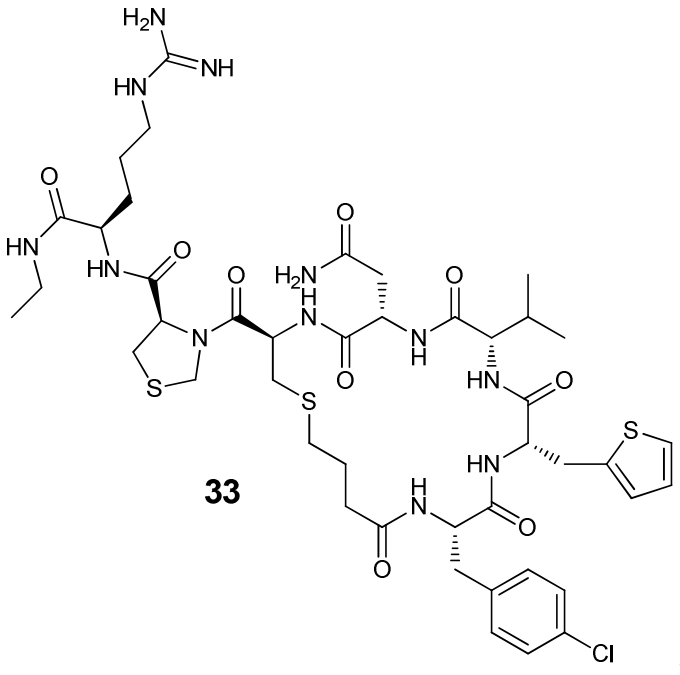
18. The compound of claim 1 which is compound 14:



19. The compound of claim 1 which is compound 21:



20. The compound of claim 1 which is compound 33:



33

21. A pharmaceutical composition comprising a compound according to any of claims 1-20 for use in the treatment of diabetes insipidus, primary nocturnal enuresis, or nocturia.

22. Use of a compound according to any of claims 1-20 in the manufacture of a medicament for the treatment of diabetes insipidus, primary nocturnal enuresis, or nocturia.