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(54) Title **DIFLUOROLACTAM COMPOSITIONS FOR EP4-MEDIATED OSTEO RELATED DISEASES AND CONDITIONS**

(56) References Cited:

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WO-A2-03/047513
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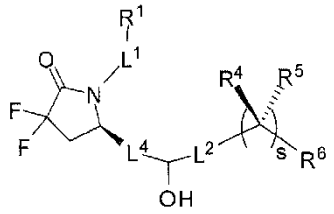
Patentkrav

1. Farmasøytisk sammensetning som omfatter en farmasøytisk akseptabel bærer og en terapeutisk effektiv mengde av en forbindelse med formel (Ia)



(Ia)

eller et farmasøytisk akseptabelt salt derav, hvor:

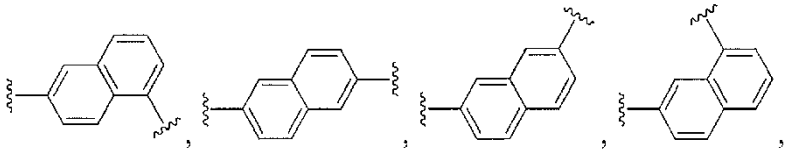
L^1 er

a) C_3-C_7alkylen, C_3-C_7alkenylen eller C_3-C_7alkynylen, hvor C_3-C_7alkylen, C_3-C_7alkenylen eller C_3-C_7alkynylen er hver eventuelt substituert med 1, 2, 3 eller 4 fluorsubstituenter;

b) $-(CH_2)_t-G-(CH_2)_p-$; hvor t er 0, 1 eller 2, p er 0, 1, 2 eller 3, og t+p = 0, 1,2, 3 eller 4; eller

c) $-(CH_2)_n-G^1-(CH_2)_p-$, $-(CH_2)_n-G^2-(CH_2)_p-$, $-(CH_2)_n-C\equiv C-G^2-$ eller $-(CH_2)_n-C(R^{13})=C(R^{13})-G^2-$, hvor n er 1, 2, 3, 4 eller 5, p er 0, 1, 2 eller 3, og n+p = 1, 2, 3, 4, 5 eller 6;

G er



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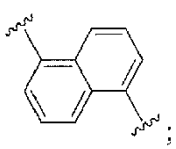
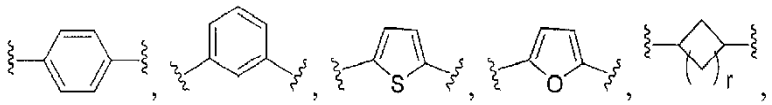
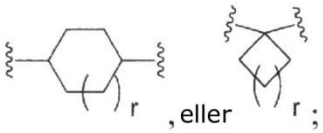


G^1 er O, C(O), S, S(O), $S(O)_2$ eller NR^8; hvor R^8 er H, C_1-C_4 alkyl eller C_1-C_4alkylkarbonyl;

G^2 er





hvor G^2 er eventuelt substituert med 1, 2 eller 3 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy og C_1-C_3haloalkoksy;

R^1 er $COOR^{10}$, $CONR^{10}R^{11}$, CH_2OR^{10}, SO_3R^{10}, $SO_2NR^{10}R^{11}$, $PO(OR^{10})_2$ eller tetrazol-5-yl;

R^{10} er H, C_1-C_4 alkyl eller aryl;

R^{11} er H, C_1-C_4 alkyl, COR^{12} eller^{10} eller SO_2R^{12};

R^{12} er C_1-C_4 alkyl;

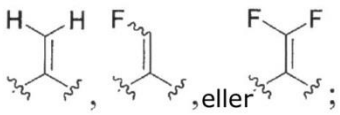
R^{13}, ved hvert tilfelle, er uavhengig H eller C_1-C_4alkyl;

L^4 er $-C(R^2)_2-C(R^3)_2-$, $-C(R^2)=C(R^3)-$, $-C\equiv C-$ eller

hvor R^2 og R^3 er hver H, CH_3, fluor eller klor;

L^2 er $-CH_2-$ eller en binding;

R^4 og R^5 er hver uavhengig H, F, CF_3 eller C_1-C_4 alkyl; eller R^4 og R^5 sammen med karbonet til hvilket de er bundet, danner et C_3-C_5 cykloalkyl,



R^6 er aryl, heteroaryl, C_3-C_{10}alkyl, C_3-C_{10}alkenyl, C_3-C_{10}alkynyl, C_3-C_{10}haloalkyl, C_3-C_{10}haloalkenyl, C_3-C_{10}haloalkynyl eller L^3-R^7; hvor arylet og heteroarylet er eventuelt substituert med 1, 2, 3 eller 4 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy, C_1-C_3haloalkoksy; og $-C_1$-C_3alkylen-C_1-C_3alkoksy; og hvor C_3-C_{10}alkyl, C_3-C_{10}alkenyl, C_3-C_{10}alkynyl, C_3-

C_{10}haloalkyl, C_3-C_{10}haloalkenyl og C_3-C_{10}haloalkynyl er eventuelt substituert med en substituent valgt fra gruppen bestående av $COOR^{10'}$, $CONR^{10'}R^{11'}$, $CH_2OR^{10'}$, $SO_3R^{10'}$, $SO_2NR^{10'}R^{11'}$, $PO(OR^{10'})_2$ og tetrazol-5-yl;

$R^{10'}$ er H, C_1-C_4 alkyl eller aryl;

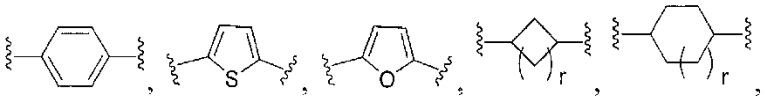
$R^{11'}$ er H, C_1-C_4 alkyl, $COR^{12'}$ eller$^{10'}$ eller $SO_2R^{12'}$;

$R^{12'}$ er C_1-C_4 alkyl;

L^3 er C_1-C_6alkylen, C_2-C_6alkenylen, C_2-C_6alkynylen, $-(CH_2)_m$-G^3-$(CH_2)_q$-, $-(CH_2)_m$-G^4-$(CH_2)_q$- eller $-G^5$-C≡C-; hvor C_1-C_6alkylen, C_2-C_6alkenylen og C_2-C_6alkynylen er eventuelt substituert med 1, 2, 3 eller 4 fluorsubstituenter; og hvor m og q er hver uavhengig 0, 1, 2 eller 3 og m + q = 0, 1, 2, 3 eller 4;

G^3 er O, C(O), S, S(O), $S(O)_2$ eller NR^9; hvor R^9 er H, C_1-C_4 alkyl eller C_1-C_4alkyl-karbonyl;

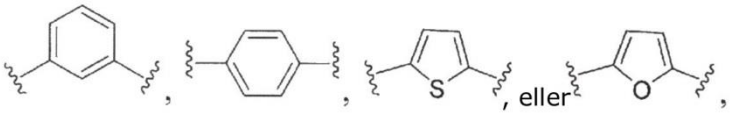
G^4 er



eller

hvor G^4 er eventuelt substituert med 1, 2 eller 3 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy og C_1-C_3haloalkoksy;

G^5 er



hvor G^5 er eventuelt substituert med 1, 2 eller 3 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy og C_1-C_3haloalkoksy;

R^7 er C_3-C_8cykloalkyl, aryl, heteroaryl eller heterocyklyl; hvor R^7 er eventuelt substituert med 1, 2, 3 eller 4 substituenter valgt fra gruppen bestående av C_1-

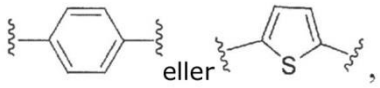
C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy, C_1-C_3haloalkoksy, og -C_1-C_3alkylen-C_1-C_3alkoksy;
r er 0 eller 1; og
s er 0 eller 1.

2. Den farmasøytiske sammensetningen ifølge krav 1, hvori:

L^1 er

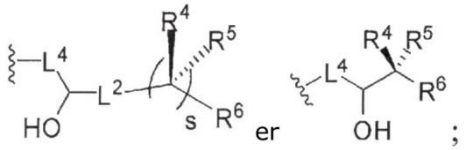
a) C_3-C_7alkylen, hvor C_3-C_7alkylen er eventuelt substituert med 1, 2, 3 eller 4 fluor-substituenter; eller
c) -$(CH_2)_n$-G^2-$(CH_2)_p$-, -$(CH_2)_n$-C≡C-G^2- eller -$(CH_2)_n$-C(H)=C(H)-G^2-, hvor n er 1, 2, 3, 4 eller 5, p er 0, 1, 2 eller 3, og n+p = 1, 2, 3, 4, 5 eller 6;

G^2 er

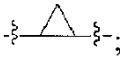


hvor G^2 er eventuelt substituert med 1, 2 eller 3 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy, og C_1-C_3haloalkoksy;
R^1 er $COOR^{10}$; og
R^{10} er H eller C_1-C_4 alkyl.

3. Den farmasøytiske sammensetningen ifølge krav 2, hvori



L^4 er -$C(R^2)_2$-$C(R^3)_2$-, -$C(R^2)$=$C(R^3)$-, -C≡C- eller

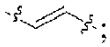


hvor R^2 og R^3 er hver H, CH_3, fluor eller klor;

R^4 og R^5 er hver uavhengig H, F, CF_3 eller C_1-C_4 alkyl; eller R^4 og R^5 sammen med karbonet til hvilket de er bundet, danner et C_3-C_5 cykloalkyl;
R^6 er aryl, C_3-C_{10}alkyl, C_3-C_{10}alkenyl, C_3-C_{10}alkynyl, C_3-C_{10}haloalkyl, C_3-C_{10}haloalkenyl, C_3-C_{10}haloalkynyl eller L^3-R^7;
L^3 er C_1-C_6alkylen, C_2-C_6alkenylen eller C_2-C_6alkynylen hvor C_1-C_6alkylen, C_2-C_6alkenylen og C_2-C_6alkynylen er eventuelt substituert med 1, 2, 3 eller 4 fluor-substituenter; og
R^7 er aryl, hvor R^7 er eventuelt substituert med 1, 2, 3 eller 4 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy, C_1-C_3haloalkoksy og -C_1-C_3alkylen-C_1-C_3alkoksy.

4. Den farmasøytiske sammensetningen ifølge krav 3, hvori

L^4 er



R^4 og R^5 er uavhengig H eller C_1-C_4 alkyl;
R^6 er C_3-C_{10}alkyl, C_3-C_{10}alkenyl, C_3-C_{10}alkynyl, C_3-C_{10}haloalkyl, C_3-C_{10}haloalkenyl, C_3-C_{10}haloalkynyl eller L^3-R^7;
L^3 er C_1-C_6alkylen, C_2-C_6alkenylen eller C_2-C_6alkynylen; hvor C_1-C_6alkylen, C_2-C_6alkenylen og C_2-C_6alkynylen er eventuelt substituert med 1, 2, 3 eller 4 fluor-substituenter; og
R^7 er aryl, hvor R^7 er eventuelt substituert med 1, 2, 3 eller 4 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy, C_1-C_3haloalkoksy og -C_1-C_3alkylen-C_1-C_3alkoksy.

5. Den farmasøytiske sammensetningen ifølge krav 4, hvori:

R^4 og R^5 er uavhengig H eller CH_3;
R^6 er C_3-C_{10}alkyl, C_3-C_{10}alkynyl eller L^3-R^7;
L^3 er C_1-C_6alkylen eller C_2-C_6alkynylen; hvor C_1-C_6alkylen og C_2-C_6alkynylen er eventuelt substituert med 1, 2, 3 eller 4 fluorsubstituenter; og
R^7 er aryl, hvor R^7 er eventuelt substituert med 1, 2, 3 eller 4 substituenter valgt fra gruppen bestående av C_1-C_4alkyl, C_1-C_3haloalkyl, cyano, halogen, C_1-C_3alkoksy, C_1-C_3haloalkoksy og -C_1-C_3alkylen-C_1-C_3alkoksy.

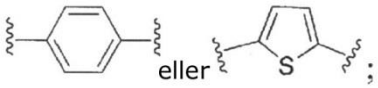
6. Den farmasøytiske sammensetningen ifølge krav 5, hvori

L^1 er

a) C_3-C_7alkylen; eller

c) -$(CH_2)_n$-G^2-, hvor n er 2 eller 3;

G^2 er



;

R^6 er propyl, butyl, pentyl, propynyl, butynyl, pentynyl, heksynyl eller L^3-R^7;

L^3 er propylen, butylen, pentylen, propynylen eller butynylen; og

R^7 er fenyl.

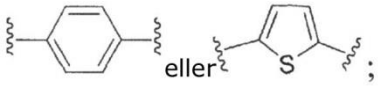
7. Den farmasøytiske sammensetningen ifølge krav 6, hvori:

L^1 er

a) n-heksylen; eller

c) -$(CH_2)_n$-G^2-, hvor n er 2 eller 3;

G^2 er



;

R^1 er $COOR^{10}$;

R^{10} er H eller CH_3;

R^6 er n-butyl, but-2-yn-1-yl, pent-2-yn-1-yl, heks-2-yn-1-yl eller L^3-R^7;

L^3 er n-propylen, n-butylen, n-pentylen eller -CH_2-C≡C-; og

R^7 er fenyl.

8. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er valgt fra gruppen som består av:

metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;

metyl-7-((5*R*)-3,3-difluor-5-((3*S*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((5*R*)-3,3-difluor-5-((3*R*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*R*,4*R*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*R*,4*R*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-4-metyldek-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyldek-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyldek-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-4-metylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((5*R*)-3,3-difluor-5-((3*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((5*R*)-3,3-difluor-5-((3*R*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((R)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((5*R*)-3,3-difluor-5-((3*R*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksynon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((5*R*)-3,3-difluor-5-((3*S*,*E*)-3-hydroksynon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((5*R*)-3,3-difluor-5-((3*S*,*E*)-3-hydroksynon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((5*R*)-3,3-difluor-5-((3*S*,*E*)-3-hydroksy-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((5*R*)-3,3-difluor-5-((3*S*,*E*)-3-hydroksy-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;

metyl-7-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((*R*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((*R,E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
metyl-7-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksy-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
metyl-7-((*R*)-3,3-difluor-5-((*R,E*)-3-hydroksy-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptanoat;
7-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksy-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((*R*,*E*)-3-hydroksy-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
4-(2-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;
metyl-4-(2-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzoat;
metyl-4-(2-((*R*)-3,3-difluor-5-((3*S*,4*S,E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzoat;
metyl-4-(2-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzoat;
metyl-4-(2-((5*R*)-3,3-difluor-5-((3*R*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzoat;
4-(2-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;
4-(2-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;
4-(2-((5R)-3,3-difluor-5-((3R,E)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;
4-(2-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyldek-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;
4-(2-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksynon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksydek-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((*S,E*)-3-hydroksy-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

metyl-4-(2-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzoat;

metyl-4-(2-((R)-3,3-difluor-5-((S,E)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzoat;

metyl-4-(2-((R)-3,3-difluor-5-((R,E)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzoat;

4-(2-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((*R*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

4-(2-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksy-7-fenylhept-l-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((5*R*)-3,3-difluor-5-((3*R*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((5*R*)-3,3-difluor-5-((3*R*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyldek-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksynon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksydek-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksy-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((5*R*)-3,3-difluor-5-((*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((*R*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((*R*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksy-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-6-fenylheks-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-6-fenylheks-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-6-fenylheks-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S,E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S,*4*S,E*)-*3*-hydroksy-4-metyl-5-fenylpent-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-5-fenylpent-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-5-fenylpent-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-5-fenylpent-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksy-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksy-7-fenylhept-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*S*)-3,3-difluor-5-((*S*)-3-hydroksy-7-fenylheptyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*S*)-3,3-difluor-5-((*S*)-3-hydroksy-7-fenylheptyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-7-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)heptanoat;

metyl-7-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)heptanoat;

7-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)heptansyre;

metyl-7-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)heptanoat;

metyl-7-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)heptanoat;

7-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-8-fenyloktyl)-2-oksopyrrolidin-1-yl)heptansyre;

metyl-7-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)heptanoat;

metyl-7-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)heptanoat;

7-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*S*)-3,3-difluor-5-((3*R*,4*R*)-3-hydroksy-4-metyl-9-fenylnonyl)-2-oksopyrrolidin-1-yl)heptansyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

metyl-5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylat;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*R*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

(*R*)-1-(6-(1*H* tetrazol-5-yl)heksyl)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)pyrrolidin-2-on;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)-*N*-etylheptanamid;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)-*N*-(metylsulfonyl)heptanamid;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*Z*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

3-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)benzosyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)hept-5-ynsyre;

(*Z*)-7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)hept-5-ensyre;

5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)prop-1-yn-1-yl)tiofen-2-karboksylsyre;

4-((2-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)etyl)tio)butansyre;

7-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)heptansyre;

5-(3-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;

4-(2-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)etyl)benzosyre;

3-(3-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)propyl)benzosyre;

4-((2-((*S*)-3,3-difluor-5-((3*R*,4*S*)-3-hydroksy-4-metyl-7-fenylheptyl)-2-oksopyrrolidin-1-yl)etyl)tio)butansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*)-3-hydroksy-4-metyl-7-fenylhept-1-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-fenylpent-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-5-fenylpent-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-6-fenylheks-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-5-((3*S*,4*S*,*E*)-7-cykloheksyl-3-hydroksy-4-metylhept-1-en-1-yl)-3,3-difluor-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-(naftalen-2-yl)hept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-(naftalen-1-yl)hept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-7-(3-fluorfenyl)-3-hydroksy-4-metylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-(*m*-tolyl)hept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-5-((3*S*,4*S*,*E*)-7-(3-klorfenyl)-3-hydroksy-4-metylhept-1-en-1-yl)-3,3-difluor-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-7-(3-metoksyfenyl)-4-metylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-7-(3-(metoksymetyl)fenyl)-4-metylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;

7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-6-(fenyltio)heks-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-6-fenoksyheks-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-5-((3*S*,4*S*,*E*)-4-etyl-3-hydroksy-7-fenylhept-1-en-1-yl)-3,3-difluor-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*R*,4*R*,*E*)-3-hydroksy-4-isopropyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-7-fenyl-4-(trifluormetyl)hept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-5-((*R*,*E*)-4,4-difluor-3-hydroksy-7-fenylhept-1-en-1-yl)-3,3-difluor-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((*R*,*E*)-3-hydroksy-4-metylen-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-5-((*R*,*E*)-4-(difluormetylen)-3-hydroksy-7-fenylhept-1-en-1-yl)-3,3-difluor-2-oksopyrrolidin-1-yl)heptansyre;
7-((*R*)-3,3-difluor-5-((*R*,*E*)-3-hydroksy-3-(1-(3-fenylpropyl)cyklobutyl)prop-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre;
5-(3-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;
5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S,E*)-3-hydroksy-4-metyl-6-fenylheks-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;
5-(3-((*R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre;
5-(3-(*(R*)-3,3-difluor-5-((3*R*,4*S*,*E*)-3-hydroksy-4-metyl-9-fenylnon-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre; eller
et farmasøytisk akseptabelt salt derav.

9. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)heptansyre.

10. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre.

11. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 7-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre.

12. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylnon-1-en-6-yn-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre.

13. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-7-fenylhept-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre.

14. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 5-(3-((*R*)-3,3-difluor-5-((*S*,*E*)-3-hydroksyokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre.

15. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre.

16. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metyl-8-fenylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre.

17. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 5-(3-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)propyl)tiofen-2-karboksylsyre.

18. Den farmasøytiske sammensetningen ifølge krav 1, hvori forbindelsen med formel (Ia) er 7-((*R*)-3,3-difluor-5-((3*S*,4*S*,*E*)-3-hydroksy-4-metylokt-1-en-1-yl)-2-oksopyrrolidin-1-yl)heptansyre.