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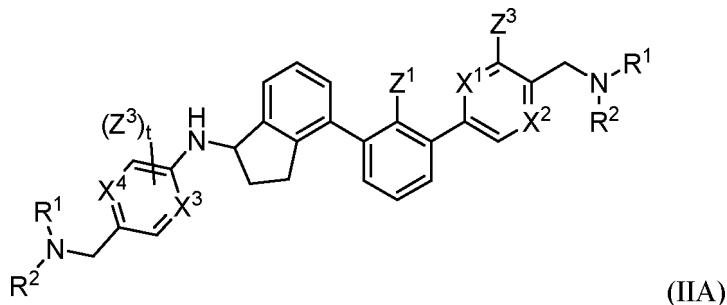
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**Patentkrav**

1. Forbindelse med formel (IIA):



eller et farmasøytisk akseptabelt salt derav, hvor

- 5 hver av  $X^1$ ,  $X^2$ ,  $X^3$  og  $X^4$  er uavhengig N, CH eller CZ<sup>3</sup>;

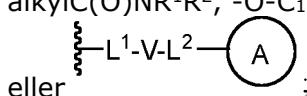
$Z^1$  er halo, -OR<sup>a</sup>, cyano eller -C<sub>1-6</sub>-alkyl;

hver  $Z^3$  er uavhengig halo, -OR<sup>a</sup>, -N<sub>3</sub>, -NO<sub>2</sub>, cyano, -NR<sup>1</sup>R<sup>2</sup>, -SO<sub>2</sub>R<sup>a</sup>, -SO<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>SO<sub>2</sub>R<sup>a</sup>, -NR<sup>a</sup>C(O)R<sup>a</sup>, -C(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>C(O)OR<sup>a</sup>, -NR<sup>a</sup>C(O)NR<sup>1</sup>R<sup>2</sup>, -OC(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-

- 10 alkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -O-C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -O-C<sub>1-6</sub>-cyanoalkyl, -O-C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylC<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl og R<sup>N</sup>; og

- 15 hvor alkyl-, alkenyl-, alkynyl-, C<sub>3-8</sub>-cykloalkyl-, aryl-, heteroaryl- eller heterocyklylgruppen er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra okso, -NO<sub>2</sub>, -N<sub>3</sub>, -OR<sup>a</sup>, halo, cyano, -NR<sup>a</sup>R<sup>b</sup>, -C(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -O-C<sub>1-6</sub>-cyanoalkyl, -C(O)NR<sup>a</sup>R<sup>b</sup>, NR<sup>a</sup>C(O)R<sup>a</sup>, -NR<sup>a</sup>C(O)OR<sup>a</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>R<sup>b</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup> og -C<sub>3-8</sub>-cykloalkyl;

- 20 R<sup>N</sup> er uavhengig -C<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -OC<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -C<sub>1-6</sub>-alkylOC<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -NR<sup>a</sup>-C<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>1</sup>R<sup>2</sup>, -O-C<sub>1-6</sub>-alkylC(O)NR<sup>1</sup>R<sup>2</sup>, -O-C<sub>1-6</sub>-alkylC(O)OR<sup>1</sup>, -S-C<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -C<sub>1-6</sub>-alkylOR<sup>a</sup> eller



hvor: L<sup>1</sup> er uavhengig en binding, -O-, -NR<sup>a</sup>-, -S-, -S(O)- eller -S(O)<sub>2</sub>-;

V er uavhengig valgt fra en binding, C<sub>1-6</sub>-alkyl, C<sub>2-6</sub>-alkenyl og C<sub>2-6</sub>-alkynyl;

5 hvor hver alkyl, alkenyl eller alkynyl er valgfritt uavhengig substituert med -OR<sup>a</sup>, halo, cyano, -NR<sup>a</sup>R<sup>b</sup> eller -C<sub>3-8</sub>-cykloalkyl;

L<sup>2</sup> er uavhengig en binding, -O-, -NR<sup>a</sup>-, -S-, -S(O)- eller -S(O)<sub>2</sub>-;

ring A er uavhengig cykloalkyl, aryl, heteroaryl eller heterocyklyl;

10 hvor hver cykloalkyl, aryl, heteroaryl eller heterocyklyl er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra okso, -NO<sub>2</sub>, -N<sub>3</sub>, -OR<sup>a</sup>, halo, cyano, -C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -O-C<sub>1-6</sub>-haloalkyl, NR<sup>a</sup>R<sup>b</sup>, -C(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -OC<sub>1-6</sub>-alkylCN, -C(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>C(O)R<sup>a</sup>, -NR<sup>a</sup>C(O)OR<sup>a</sup>, -C(O)N(R<sup>a</sup>)OR<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>3-8</sub>-cykloalkyl, heteroaryl og -C<sub>1-6</sub>-alkylC<sub>3-8</sub>-cykloalkyl; og

15 20 hvor alkyl-, alkenyl- eller alkynylgruppen er valgfritt uavhengig substituert med -OR<sup>a</sup>, halo, cyano, -NR<sup>a</sup>R<sup>b</sup> eller -C<sub>3-8</sub>-cykloalkyl;

t er 0, 1 eller 2;

25 hvor R<sup>1</sup> er uavhengig valgt fra hydrogen, -C<sub>1-8</sub>-alkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -C<sub>3-6</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl, -C<sub>1-6</sub>-alkylheterocyklyl, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -C<sub>2-6</sub>-alkenylC(O)OR<sup>a</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>R<sup>a</sup> og -C<sub>1-6</sub>-alkylC<sub>3-8</sub>-cykloalkyl;

hvor hver alkyl, alkenyl, cykloalkyl, aryl, heteroaryl eller heterocyklyl er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra -OR<sup>a</sup>, cyano, halo, C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-alkylOR<sup>a</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, C<sub>3-8</sub>-

5 cykloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>a</sup>,  
 -C(O)OR<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -NR<sup>a</sup>R<sup>b</sup>, -OC(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>C(O)OR<sup>b</sup>, -C<sub>1-6</sub>-alkylNR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>R<sup>b</sup>, -SO<sub>2</sub>R<sup>a</sup>, -C<sub>1-6</sub>-alkylISO<sub>2</sub>R<sup>a</sup>,  
 -SO<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylSO<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>SO<sub>2</sub>R<sup>b</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>SO<sub>2</sub>R<sup>b</sup>, -NR<sup>a</sup>C(O)R<sup>b</sup> og -C<sub>1-6</sub>-alkylNR<sup>a</sup>C(O)R<sup>b</sup>;

hver R<sup>2</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -C<sub>3-6</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl, -C<sub>1-6</sub>-alkylheterocyklyl, -C<sub>2-6</sub>-alkyl-OR<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup> og -C<sub>2-6</sub>-alkenylC(O)OR<sup>a</sup>;

10 hvor hver alkyl, alkenyl, alkynyl, cykloalkyl, aryl, heteroaryl eller heterocyklyl er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra -OR<sup>a</sup>, cyano, halo, C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-alkylOR<sup>a</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylNR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>R<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>R<sup>b</sup> og -NR<sup>a</sup>C(O)R<sup>b</sup>;

eller R<sup>1</sup> og R<sup>2</sup> er slått sammen for å danne en heterocyklyl valgfritt substituert med 1 til 3 grupper uavhengig valgt fra okso, -C<sub>1-6</sub>-alkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -OR<sup>a</sup>, -C(O)OR<sup>a</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-alkylOR<sup>a</sup>, -C<sub>1-6</sub>-haloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylNR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>R<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)N=S(O)R<sup>a</sup>NR<sup>a</sup>R<sup>b</sup>, -C(O)N=S(O)R<sup>a</sup>NR<sup>a</sup>C(O)R<sup>b</sup> og -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>;

25 hvor R<sup>a</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl;

30 hvor R<sup>b</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl;

eller R<sup>a</sup> og R<sup>b</sup> kan være slått sammen for å danne en heterocyklyl valgfritt substituert med 1 til 4 grupper uavhengig valgt fra -OR<sup>f</sup>, cyano, halo, -C<sub>1-6</sub>-

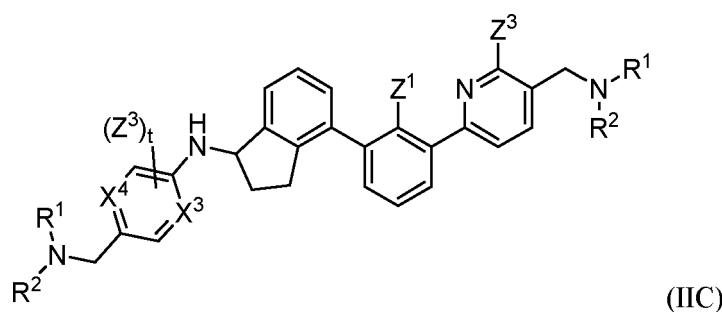
alkylOR<sup>f</sup>, -C<sub>1-6</sub>-ecyanoalkyl, -C<sub>1-6</sub>-ehaloalkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>f</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>f</sup>, -C(O)OR<sup>f</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>f</sup>, -NR<sup>f</sup>R<sup>g</sup>, -C<sub>1-6</sub>-alkylNR<sup>f</sup>R<sup>g</sup>, -C(O)NR<sup>f</sup>R<sup>g</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>f</sup>R<sup>g</sup>, -S(O)<sub>2</sub>R<sup>f</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>R<sup>f</sup>, -S(O)<sub>2</sub>NR<sup>f</sup>R<sup>g</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>NR<sup>f</sup>R<sup>g</sup>, -C(O)NR<sup>f</sup>S(O)<sub>2</sub>R<sup>g</sup> og -NR<sup>f</sup>C(O)R<sup>g</sup>;

- 5 hver R<sup>f</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl; og

hver R<sup>g</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-

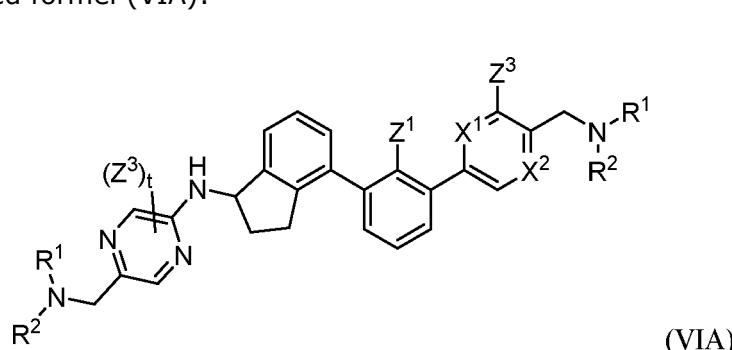
- 10 alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl.

2. Forbindelse ifølge krav 1, hvor forbindelsen med formel (IIA) er en forbindelse med formel (IIC):



eller et farmasøytsk akseptabelt salt derav, hvor X<sup>3</sup>, X<sup>4</sup>, Z<sup>1</sup>, Z<sup>3</sup>, t, R<sup>1</sup> og R<sup>2</sup> har betydningene angitt i krav 1.

- 15 betydningene angitt i krav 1.
3. Forbindelse ifølge krav 1, hvor forbindelsen med formel (IIA) er en forbindelse med formel (VIA):



eller et farmasøytsk akseptabelt salt derav, hvor hver av X<sup>1</sup> og X<sup>2</sup> er uavhengig N,

- 20 CH eller CZ<sup>3</sup>;

$Z^1$  er halo, -OR<sup>a</sup>, cyano eller -C<sub>1-6</sub>-alkyl;

hver  $Z^3$  er uavhengig halo, -OR<sup>a</sup>, -N<sub>3</sub>, -NO<sub>2</sub>, cyano, -NR<sup>1</sup>R<sup>2</sup>, -SO<sub>2</sub>R<sup>a</sup>, -SO<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>SO<sub>2</sub>R<sup>a</sup>, -NR<sup>a</sup>C(O)R<sup>a</sup>, -C(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>C(O)OR<sup>a</sup>,

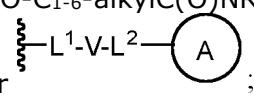
-NR<sup>a</sup>C(O)NR<sup>1</sup>R<sup>2</sup>, -OC(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-

- 5 alkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -O-C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -O-C<sub>1-6</sub>-cyanoalkyl, -O-C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylC<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl og R<sup>N</sup>; og

10 hvor alkyl-, alkenyl-, alkynyl-, C<sub>3-8</sub>-cykloalkyl-, aryl-, heteroaryl- eller heterocyklylgruppen er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra okso, -NO<sub>2</sub>, -N<sub>3</sub>, -OR<sup>a</sup>, halo, cyano, -NR<sup>a</sup>R<sup>b</sup>, -C(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -O-C<sub>1-6</sub>-cyanoalkyl, -C(O)NR<sup>a</sup>R<sup>b</sup>, NR<sup>a</sup>C(O)R<sup>a</sup>, -NR<sup>a</sup>C(O)OR<sup>a</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>R<sup>b</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup> og -C<sub>3-8</sub>-cykloalkyl;

R<sup>N</sup> er uavhengig -C<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -OC<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -C<sub>1-6</sub>-alkylOC<sub>1-6</sub>-

- 15 alkylNR<sup>1</sup>R<sup>2</sup>, -NR<sup>a</sup>-C<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>1</sup>R<sup>2</sup>, -O-C<sub>1-6</sub>-alkylC(O)NR<sup>1</sup>R<sup>2</sup>, -O-C<sub>1-6</sub>-alkylC(O)OR<sup>1</sup>, -S-C<sub>1-6</sub>-alkylNR<sup>1</sup>R<sup>2</sup>, -C<sub>1-6</sub>-alkylOR<sup>a</sup> eller



hvor: L<sup>1</sup> er uavhengig en binding, -O-, -NR<sup>a</sup>-, -S-, -S(O)- eller -S(O)<sub>2</sub>-;

V er uavhengig valgt fra en binding, C<sub>1-6</sub>-alkyl, C<sub>2-6</sub>-alkenyl og C<sub>2-6</sub>-alkynyl;

20 hvor hver alkyl, alkenyl eller alkynyl er valgfritt uavhengig substituert med -OR<sup>a</sup>, halo, cyano, -NR<sup>a</sup>R<sup>b</sup> eller -C<sub>3-8</sub>-cykloalkyl;

L<sup>2</sup> er uavhengig en binding, -O-, -NR<sup>a</sup>-, -S-, -S(O)- eller -S(O)<sub>2</sub>-;

ring A er uavhengig cykloalkyl, aryl, heteroaryl eller heterocyklyl;

25 hvor hver cykloalkyl, aryl, heteroaryl eller heterocyklyl er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra okso, -NO<sub>2</sub>, -N<sub>3</sub>, -OR<sup>a</sup>, halo, cyano, -C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -O-C<sub>1-6</sub>-haloalkyl, NR<sup>a</sup>R<sup>b</sup>, -C(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -OC<sub>1-6</sub>-alkylCN, -C(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>C(O)R<sup>a</sup>, -NR<sup>a</sup>C(O)OR<sup>a</sup>, -C(O)N(R<sup>a</sup>)OR<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>3-8</sub>-cykloalkyl, heteroaryl og -C<sub>1-6</sub>-alkylC<sub>3-8</sub>-cykloalkyl; og

hvor alkyl-, alkenyl- eller alkynylgruppen er valgfritt uavhengig substituert med -OR<sup>a</sup>, halo, cyano, -NR<sup>a</sup>R<sup>b</sup> eller -C<sub>3-8</sub>-cykloalkyl;

t er 0, 1 eller 2;

5 hver R<sup>1</sup> er uavhengig valgt fra hydrogen, -C<sub>1-8</sub>-alkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -C<sub>3-6</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl, -C<sub>1-6</sub>-alkylheterocyklyl, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -C<sub>2-6</sub>-alkenylC(O)OR<sup>a</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>R<sup>a</sup> og -C<sub>1-6</sub>-alkylC<sub>3-8</sub>-cykloalkyl;

10 hvor hver alkyl, alkenyl, cykloalkyl, aryl, heteroaryl eller heterocyklyl er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra -OR<sup>a</sup>, cyano, halo, C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-alkylOR<sup>a</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, C<sub>3-8</sub>-cykloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -NR<sup>a</sup>R<sup>b</sup>, -OC(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>C(O)OR<sup>b</sup>, -C<sub>1-6</sub>-alkylNR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>R<sup>b</sup>, -SO<sub>2</sub>R<sup>a</sup>, -C<sub>1-6</sub>-alkylSO<sub>2</sub>R<sup>a</sup>, -SO<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylSO<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>SO<sub>2</sub>R<sup>b</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>SO<sub>2</sub>R<sup>b</sup>, 15 -NR<sup>a</sup>C(O)R<sup>b</sup> og -C<sub>1-6</sub>-alkylNR<sup>a</sup>C(O)R<sup>b</sup>;

20 hver R<sup>2</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -C<sub>3-6</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl, -C<sub>1-6</sub>-alkylheterocyklyl, -C<sub>2-6</sub>-alkyl-OR<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup> og -C<sub>2-6</sub>-alkenylC(O)OR<sup>a</sup>;

25 hvor hver alkyl, alkenyl, alkynyl, cykloalkyl, aryl, heteroaryl eller heterocyklyl er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra -OR<sup>a</sup>, cyano, halo, C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-alkylOR<sup>a</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylNR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>R<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>R<sup>b</sup> og -NR<sup>a</sup>C(O)R<sup>b</sup>;

30 eller R<sup>1</sup> og R<sup>2</sup> er slått sammen for å danne en heterocyklyl valgfritt substituert med 1 til 3 grupper uavhengig valgt fra okso, -C<sub>1-6</sub>-alkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -OR<sup>a</sup>, -C(O)OR<sup>a</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-alkylOR<sup>a</sup>, -C<sub>1-6</sub>-haloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylNR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>R<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -C<sub>1-6</sub>-

alkylS(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)N=S(O)R<sup>a</sup>NR<sup>a</sup>R<sup>b</sup>, -C(O)N=S(O)R<sup>a</sup>NR<sup>a</sup>C(O)R<sup>b</sup>  
og -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>;

hver R<sup>a</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-

5 cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl;

hver R<sup>b</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl;

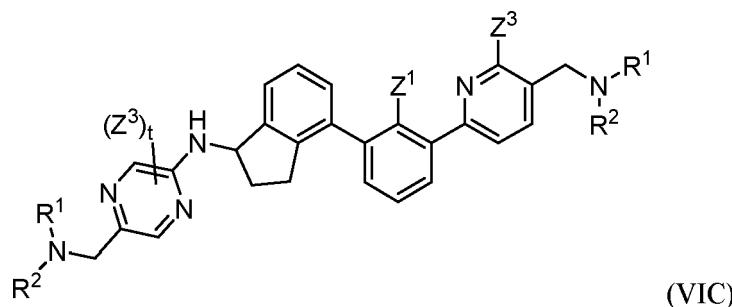
eller R<sup>a</sup> og R<sup>b</sup> kan være slått sammen for å danne en heterocyklyl valgfritt

10 substituert med 1 til 4 grupper uavhengig valgt fra -OR<sup>f</sup>, cyano, halo, -C<sub>1-6</sub>-alkylOR<sup>f</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>f</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>f</sup>, -C(O)OR<sup>f</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>f</sup>, -NR<sup>f</sup>R<sup>g</sup>, -C<sub>1-6</sub>-alkylNR<sup>f</sup>R<sup>g</sup>, -C(O)NR<sup>f</sup>R<sup>g</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>f</sup>R<sup>g</sup>, -S(O)<sub>2</sub>R<sup>f</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>R<sup>f</sup>, -S(O)<sub>2</sub>NR<sup>f</sup>R<sup>g</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>NR<sup>f</sup>R<sup>g</sup>, -C(O)NR<sup>f</sup>S(O)<sub>2</sub>R<sup>g</sup> og -NR<sup>f</sup>C(O)R<sup>g</sup>;

15 hver R<sup>f</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl; og

hver R<sup>g</sup> er uavhengig valgt fra hydrogen, -C<sub>1-6</sub>-alkyl, -C<sub>3-8</sub>-cykloalkyl, aryl, heteroaryl, heterocyklyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C<sub>1-6</sub>-alkylaryl, -C<sub>1-6</sub>-alkylheteroaryl og -C<sub>1-6</sub>-alkylheterocyklyl.

4. Forbindelse ifølge krav 3, hvor forbindelsen med formel (VIA) er en forbindelse med formel (VIC):



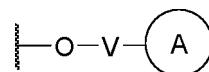
eller et farmasøytsk akseptabelt salt derav, hvor Z<sup>1</sup>, Z<sup>3</sup>, t, R<sup>1</sup> og R<sup>2</sup> har

25 betydningene angitt i krav 3.

5. Forbindelse ifølge et hvilket som helst av de forutgående krav, hvor Z<sup>1</sup> er halo.

6. Forbindelse ifølge et hvilket som helst av de forutgående krav, hvor i det minste én Z<sup>3</sup> er halo, -C<sub>1-6</sub>-alkyl, C<sub>1-6</sub>-haloalkyl, -O-cyanoalkyl, -O-C<sub>1-6</sub>-haloalkyl  
5 eller C<sub>1-6</sub>-alkoksy.

7. Forbindelse ifølge et hvilket som helst av de forutgående krav, hvor i det minste én Z<sup>3</sup> har formel:



V er uavhengig valgt fra en binding, C<sub>1-6</sub>-alkyl, C<sub>2-6</sub>-alkenyl og C<sub>2-6</sub>-alkynyl;

10 hvor hver alkyl, alkenyl eller alkynyl er valgfritt uavhengig substituert med -OR<sup>a</sup>, halo, cyano, -NR<sup>a</sup>R<sup>b</sup> eller -C<sub>3-8</sub>-cykloalkyl;

ring A er uavhengig cykloalkyl, aryl, heteroaryl eller heterocyklyl;

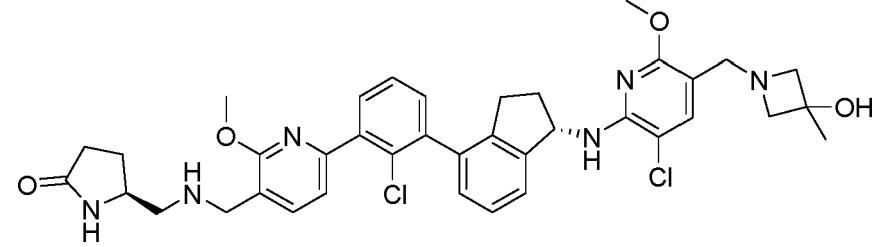
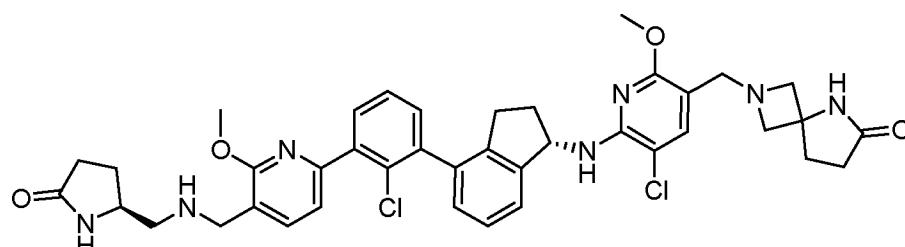
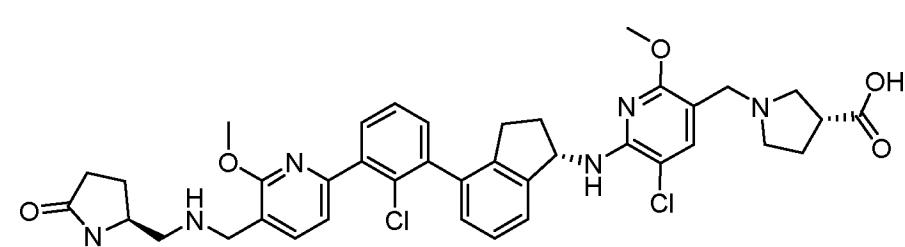
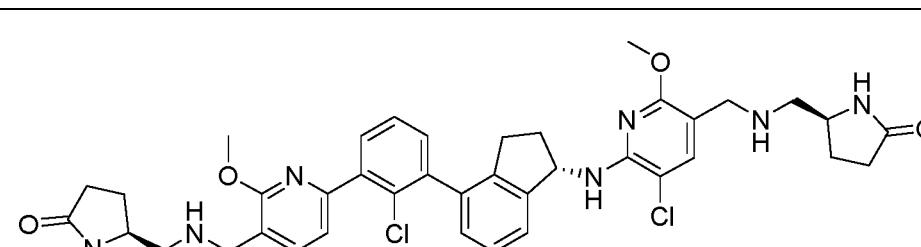
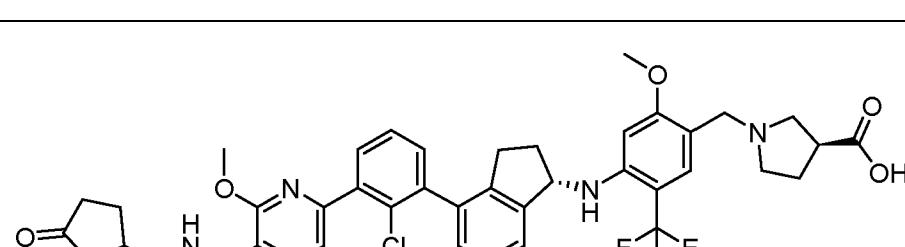
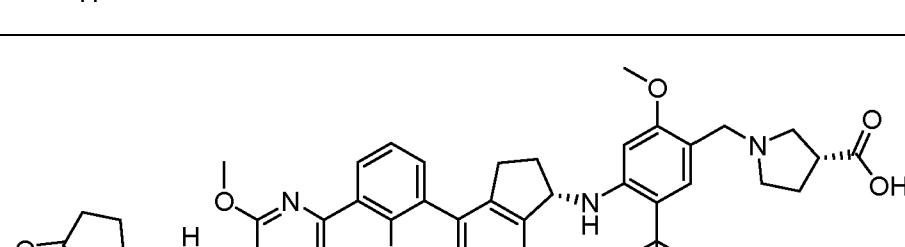
15 hvor hver cykloalkyl, aryl, heteroaryl eller heterocyklyl er valgfritt substituert med 1 til 4 grupper uavhengig valgt fra okso, -NO<sub>2</sub>, -N<sub>3</sub>, -OR<sup>a</sup>, halo, cyano, -C<sub>1-6</sub>-alkyl, -C<sub>1-6</sub>-haloalkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -O-C<sub>1-6</sub>-haloalkyl, NR<sup>a</sup>R<sup>b</sup>, -C(O)R<sup>a</sup>, -C(O)OR<sup>a</sup>, -OC<sub>1-6</sub>-alkylCN, -C(O)NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>C(O)R<sup>a</sup>, NR<sup>a</sup>C(O)OR<sup>a</sup>, -C(O)N(R<sup>a</sup>)OR<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>R<sup>b</sup>, -NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C<sub>3-8</sub>-cykloalkyl, heteroaryl og -C<sub>1-6</sub>-alkyl-C<sub>3-8</sub>-cykloalkyl.

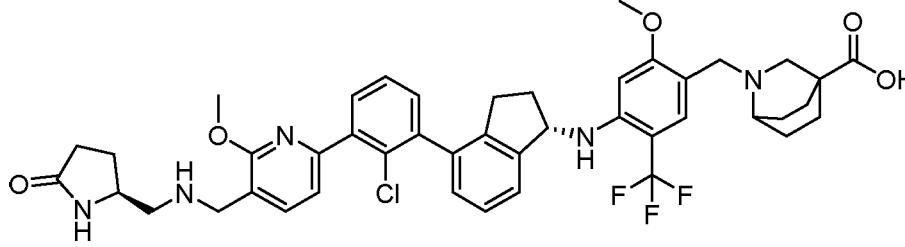
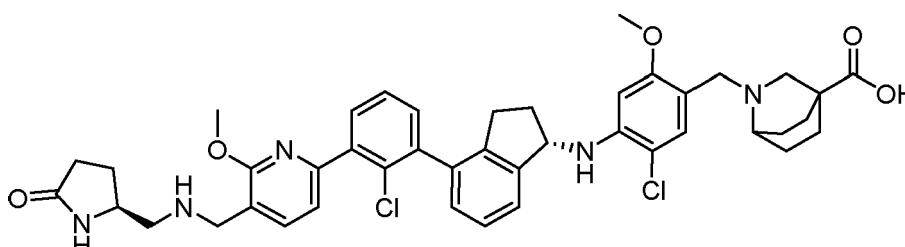
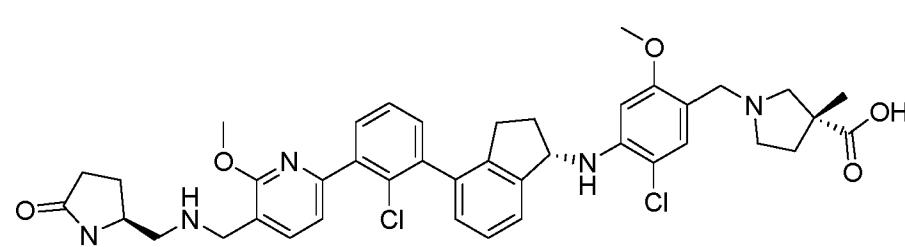
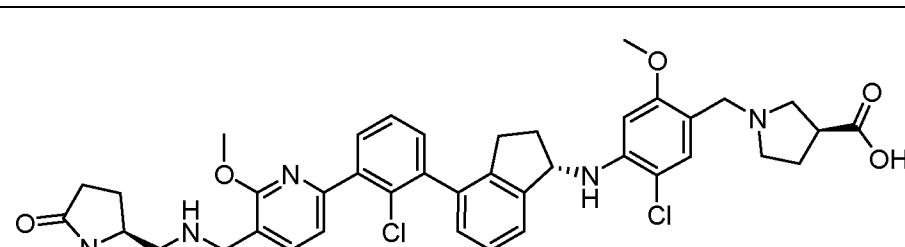
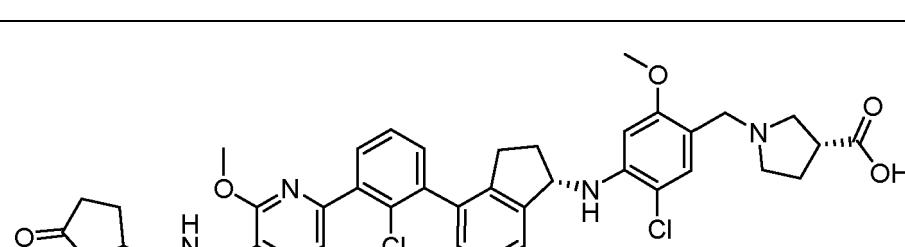
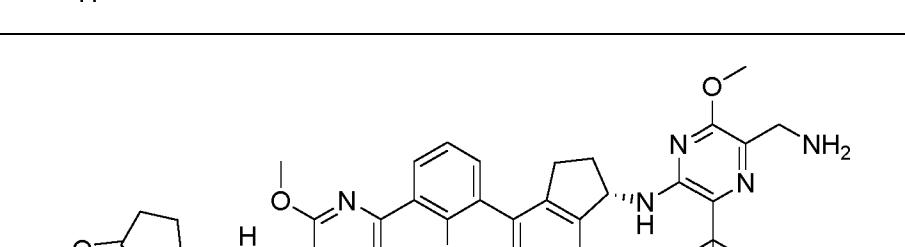
20 8. Forbindelse ifølge et hvilket som helst av kravene 1 til 7, hvor R<sup>1</sup> og R<sup>2</sup> er slått sammen for å danne en heterocyklyl valgfritt substituert med 1 til 3 grupper uavhengig valgt fra okso, -C<sub>1-6</sub>-alkyl, -C<sub>3-8</sub>-cykloalkyl, -C<sub>2-6</sub>-alkenyl, -C<sub>2-6</sub>-alkynyl, -OR<sup>a</sup>, -C(O)OR<sup>a</sup>, -C<sub>1-6</sub>-cyanoalkyl, -C<sub>1-6</sub>-alkylOR<sup>a</sup>, -C<sub>1-6</sub>-haloalkyl, -C<sub>1-3</sub>-alkylC<sub>3-8</sub>-cykloalkyl, -C(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)R<sup>a</sup>, -C<sub>1-6</sub>-alkylC(O)OR<sup>a</sup>, -NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylNR<sup>a</sup>R<sup>b</sup>, -C(O)NR<sup>a</sup>R<sup>b</sup>, -C<sub>1-6</sub>-alkylC(O)NR<sup>a</sup>R<sup>b</sup>, -S(O)<sub>2</sub>R<sup>a</sup>, -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>R<sup>a</sup>, -S(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>, -C(O)N=S(O)R<sup>a</sup>NR<sup>a</sup>R<sup>b</sup>, -C(O)N=S(O)R<sup>a</sup>NR<sup>a</sup>C(O)R<sup>b</sup> og -C<sub>1-6</sub>-alkylS(O)<sub>2</sub>NR<sup>a</sup>R<sup>b</sup>.

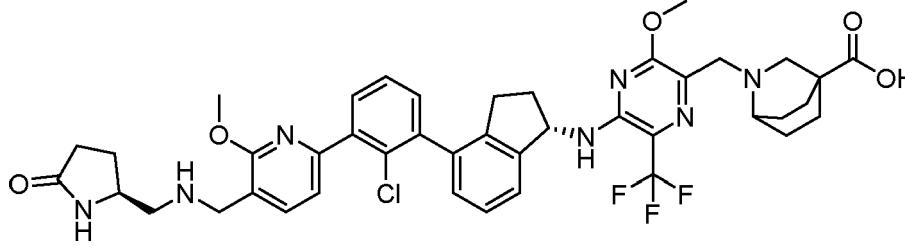
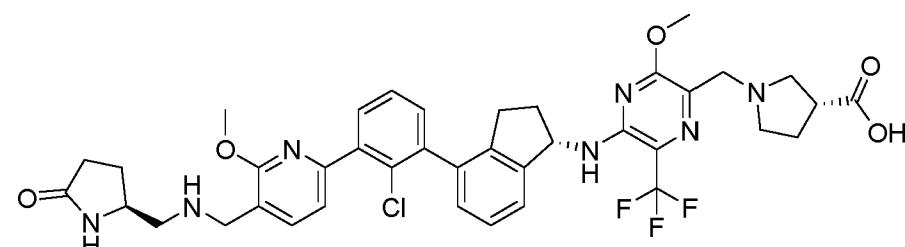
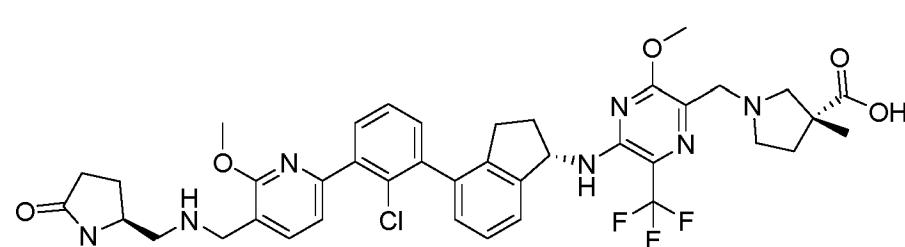
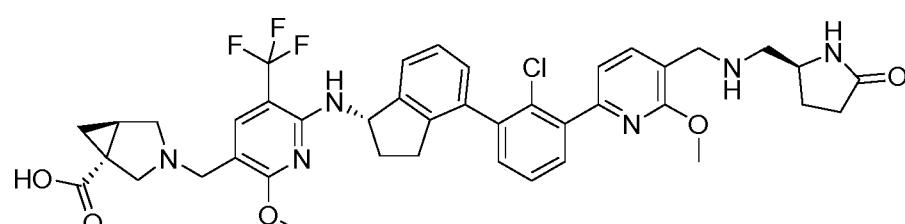
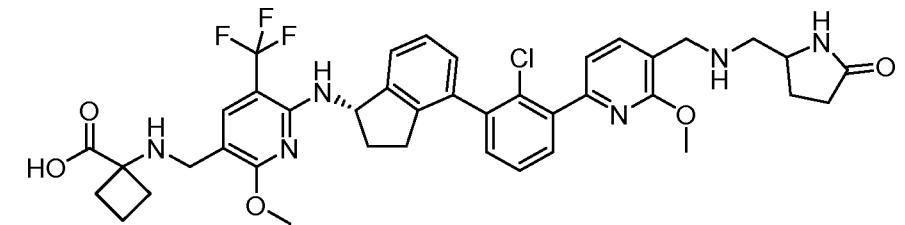
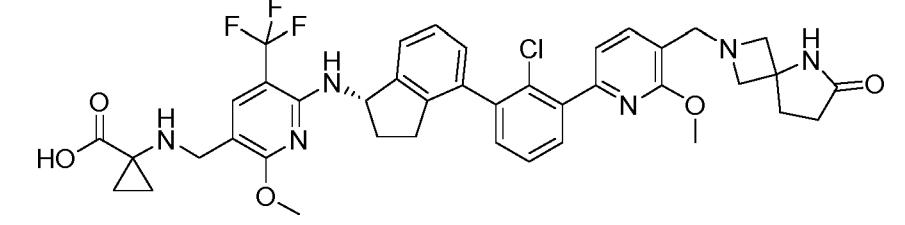
9. Forbindelse ifølge et hvilket som helst av kravene 1 til 7, hvor i det minste én av R<sup>1</sup> og R<sup>2</sup> er -C<sub>1-6</sub>-alkylheteroaryl eller -C<sub>1-6</sub>-alkylheterocyklyl.

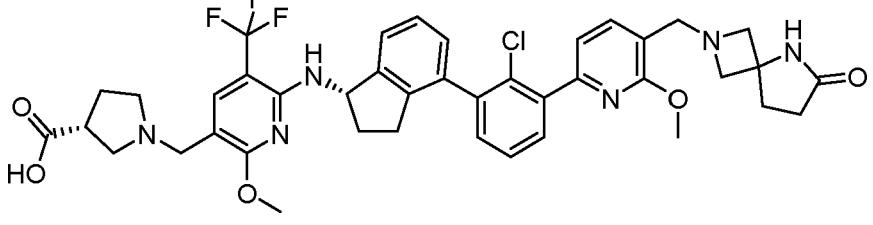
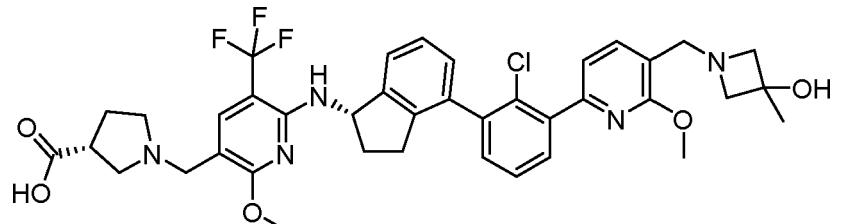
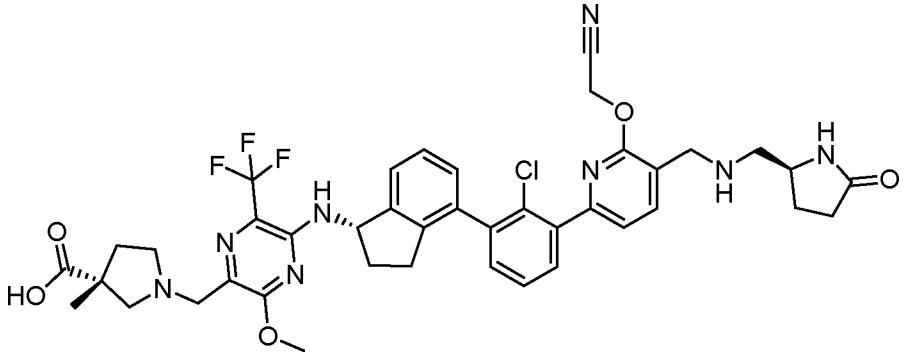
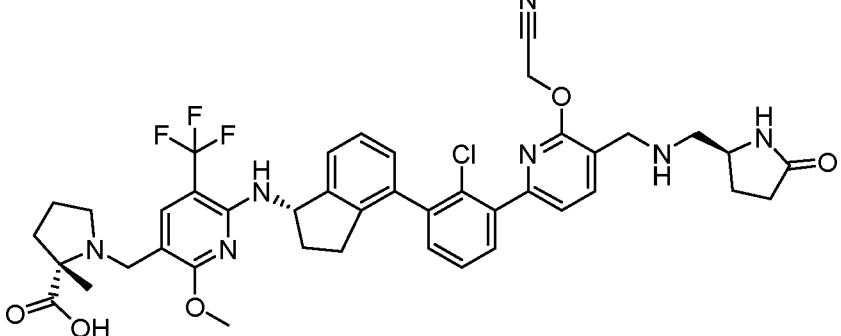
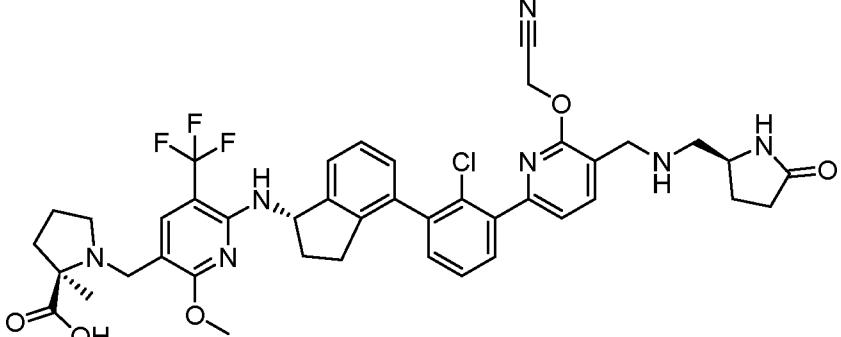
10. Forbindelse ifølge krav 1, valgt fra de følgende forbindelser A-1 til A-109, eller et farmasøytisk akseptabelt salt derav:

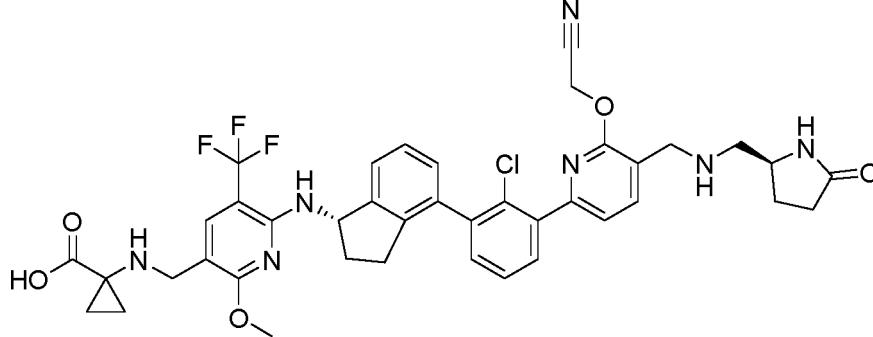
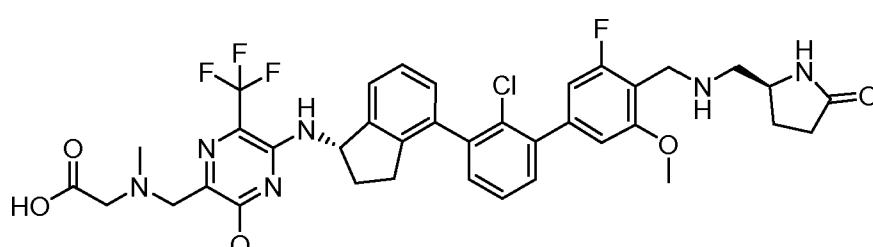
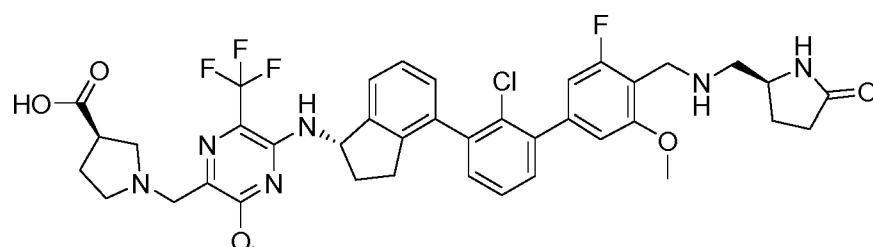
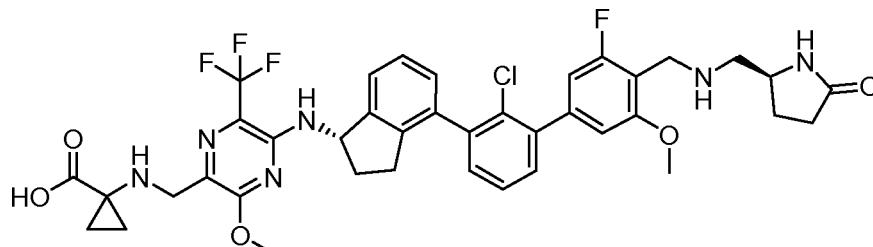
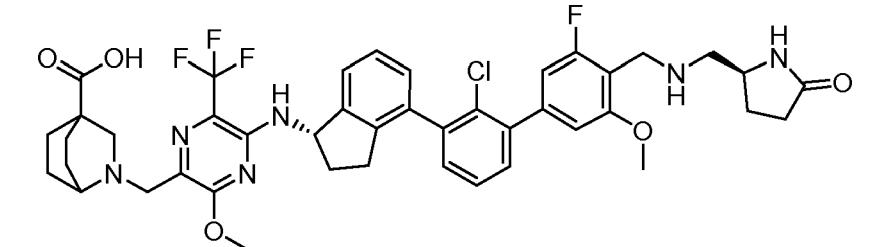
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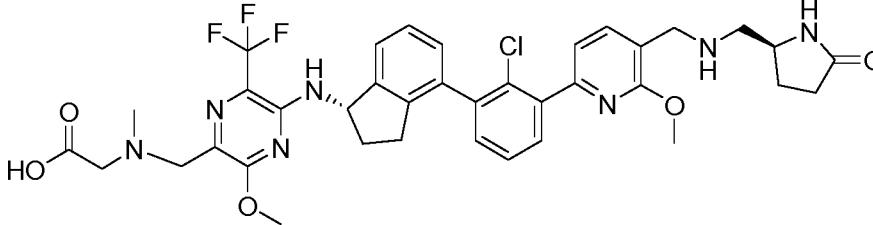
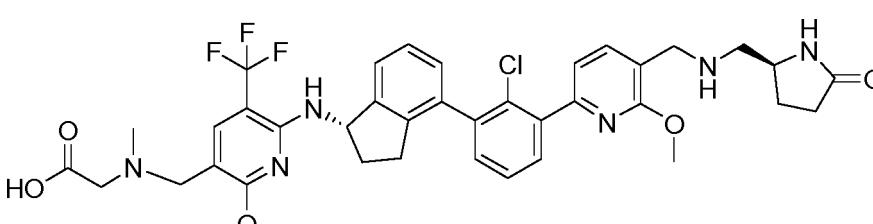
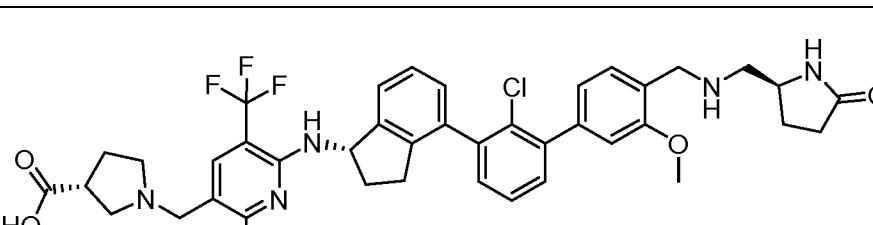
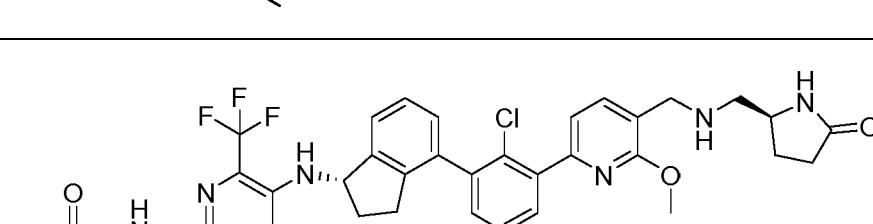
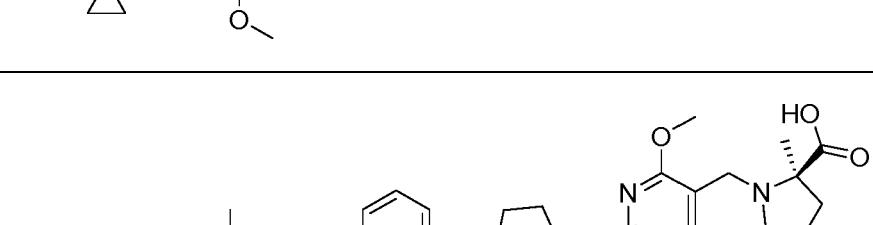
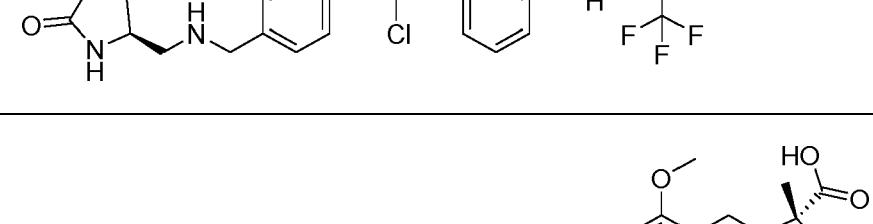
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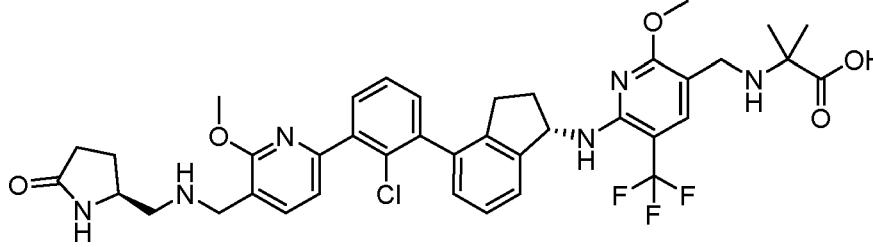
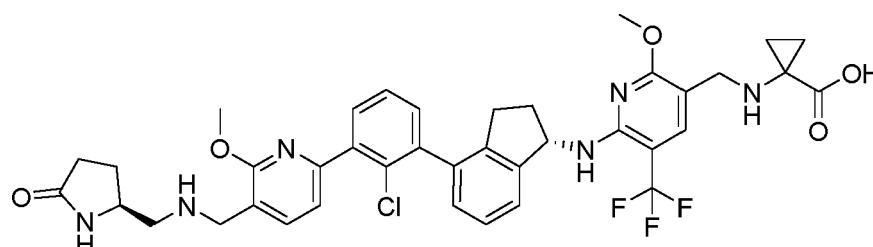
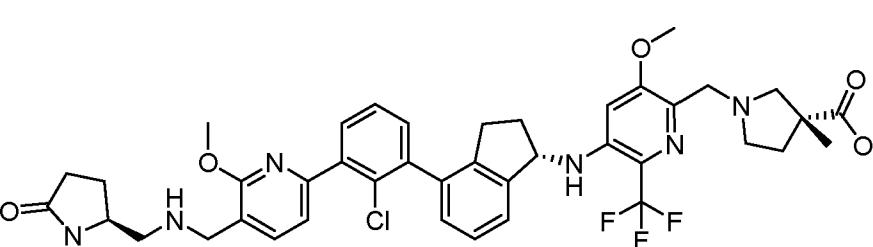
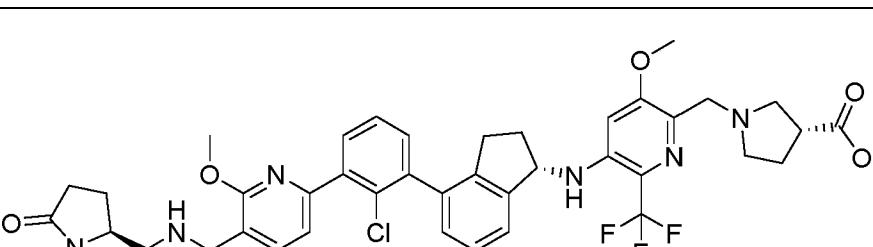
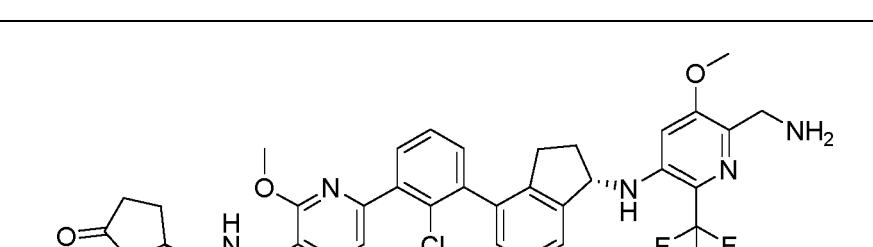
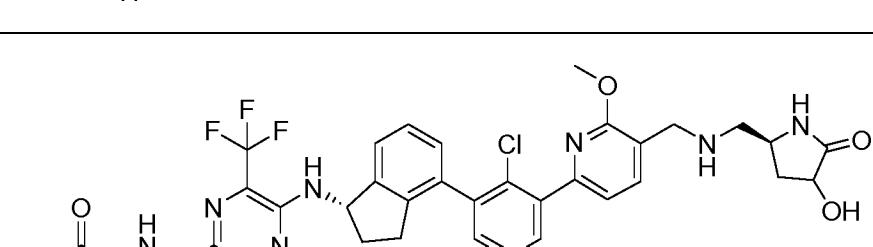
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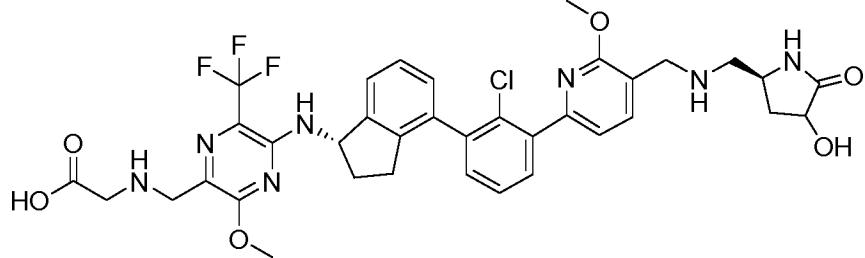
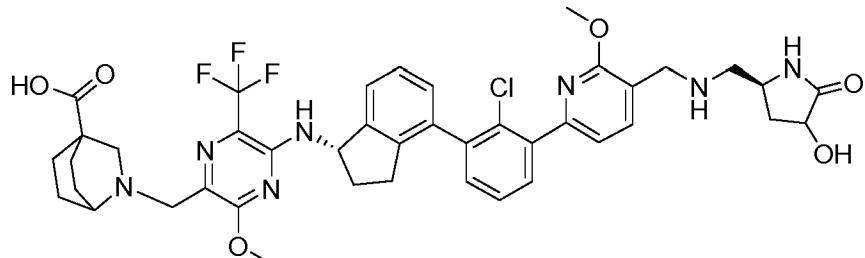
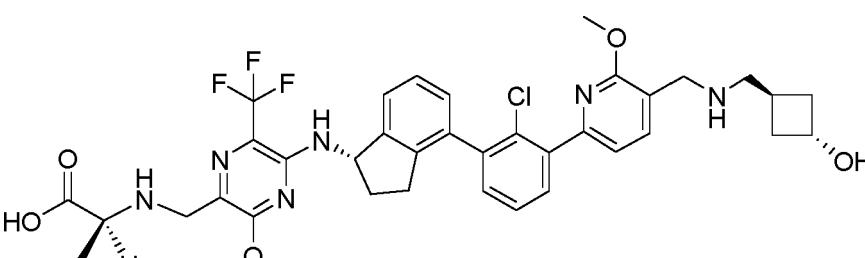
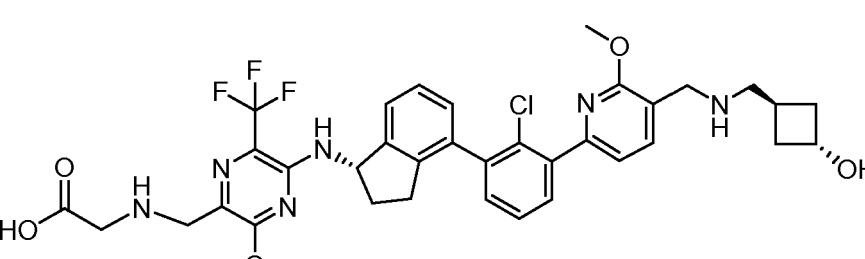
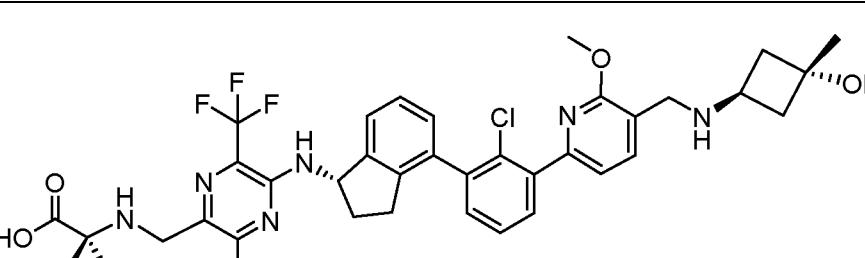
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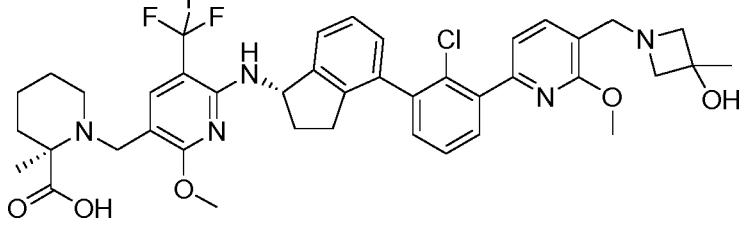
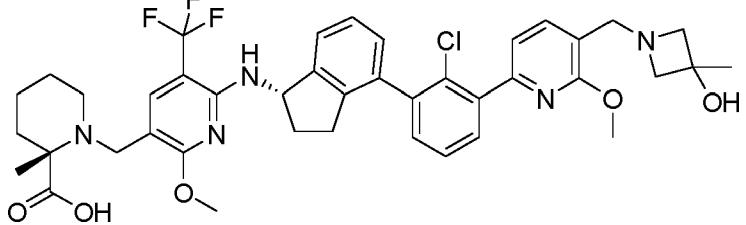
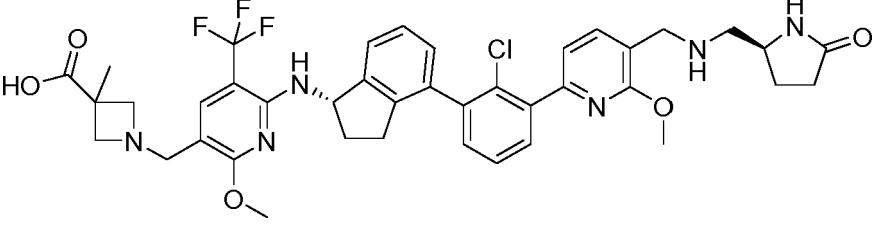
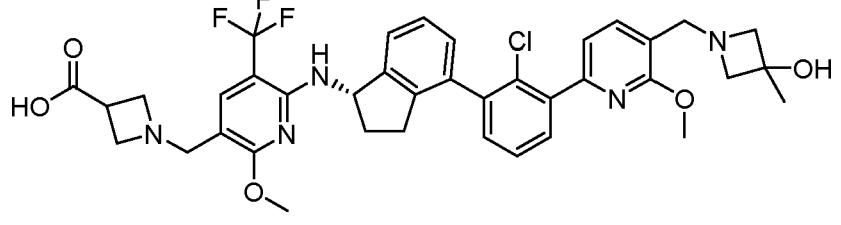
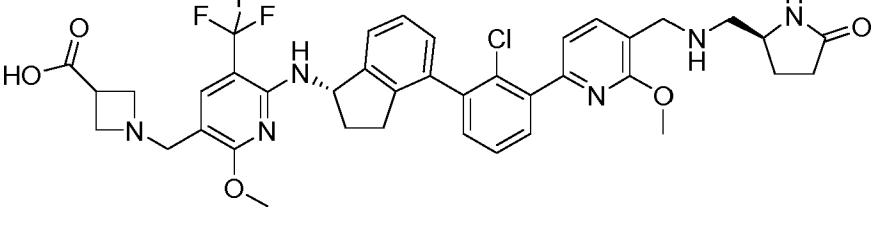
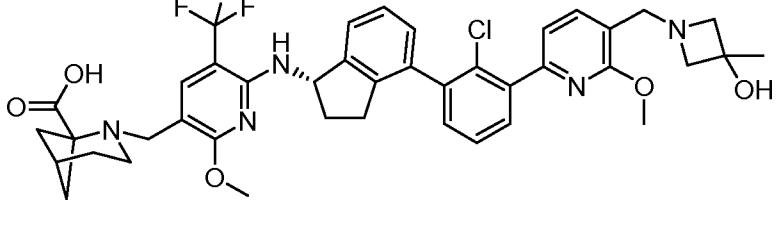
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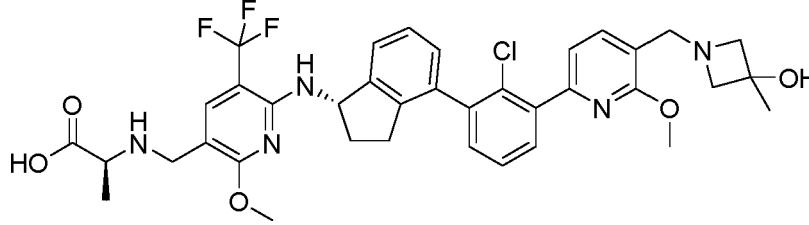
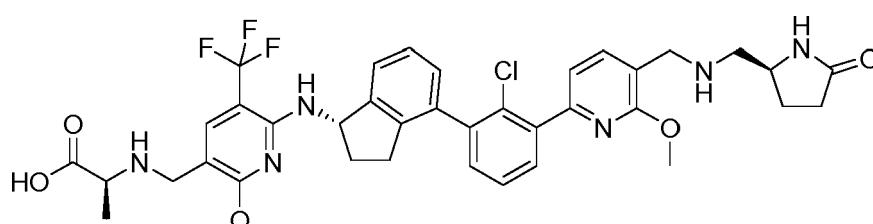
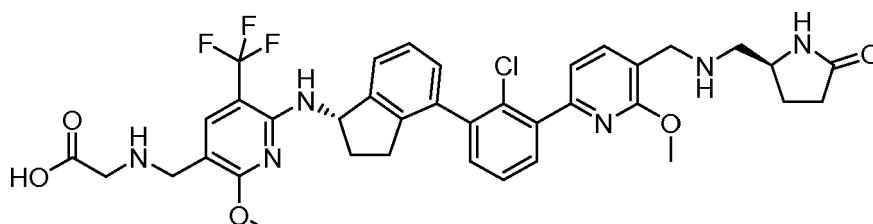
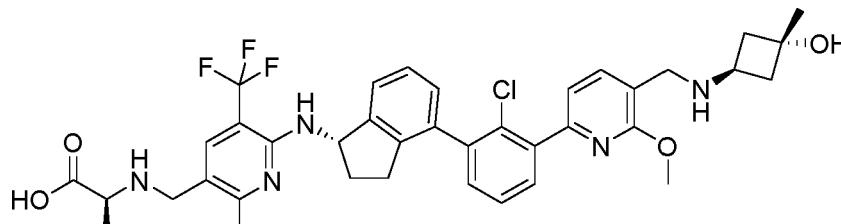
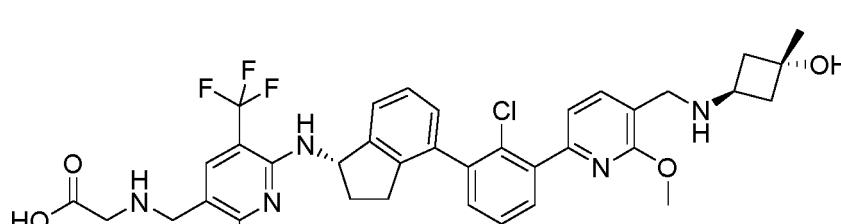
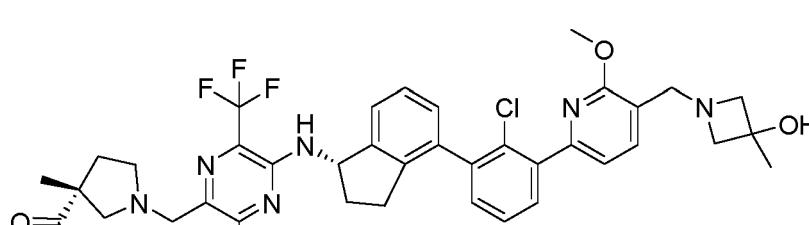
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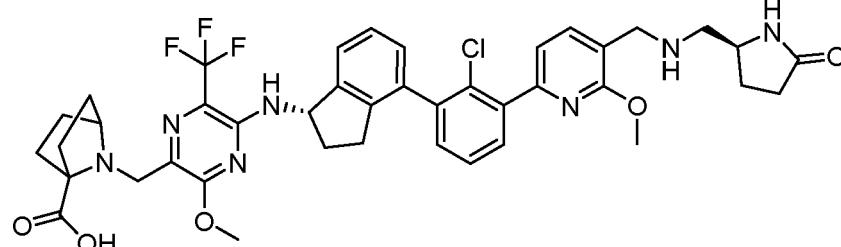
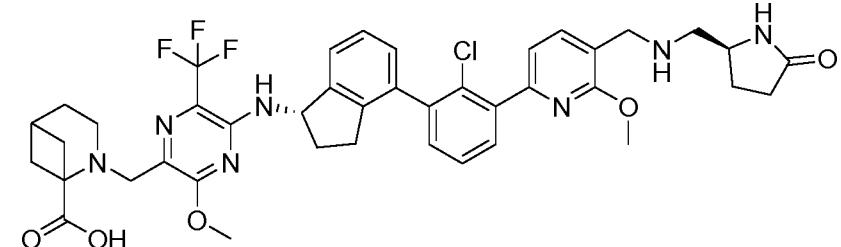
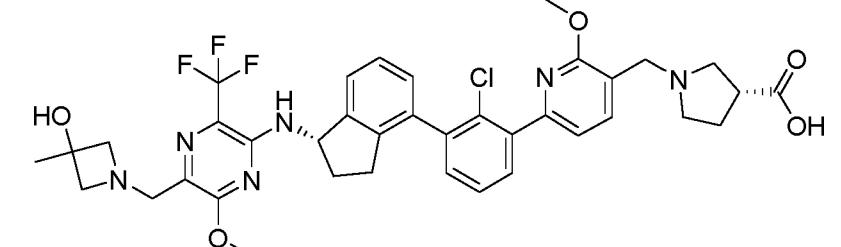
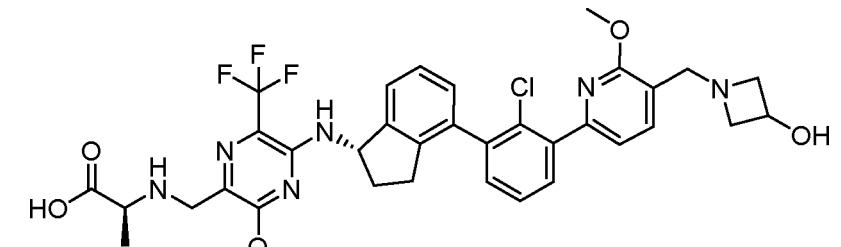
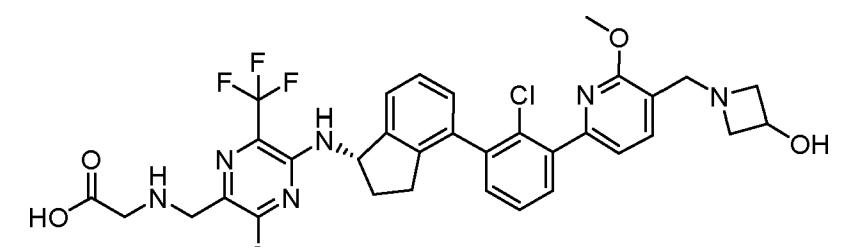
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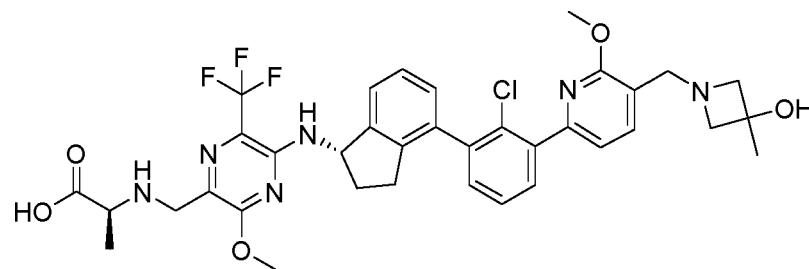
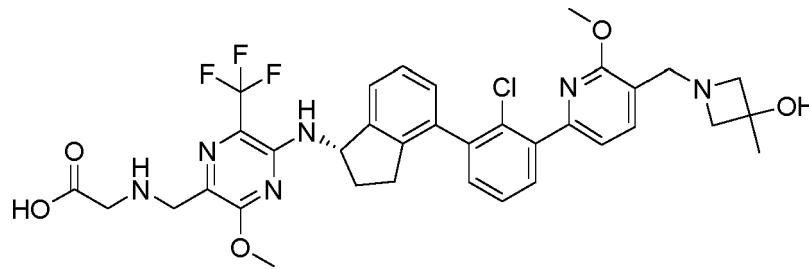
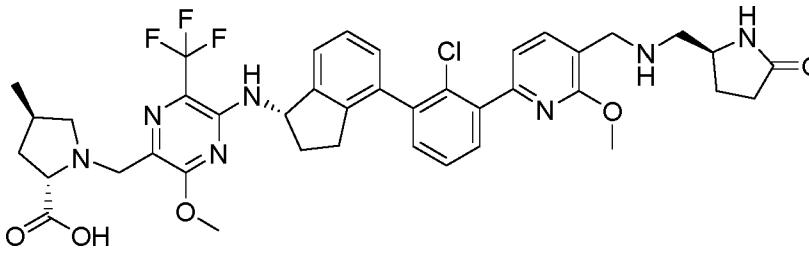
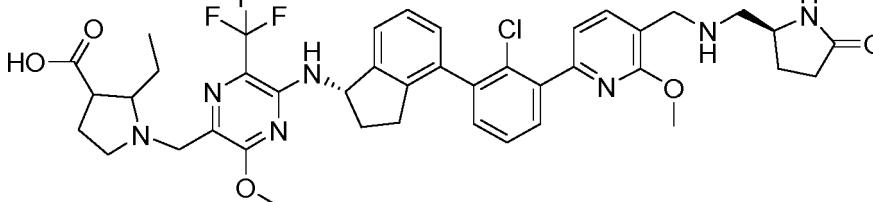
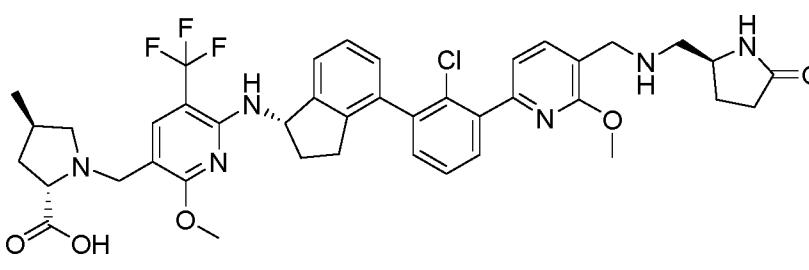
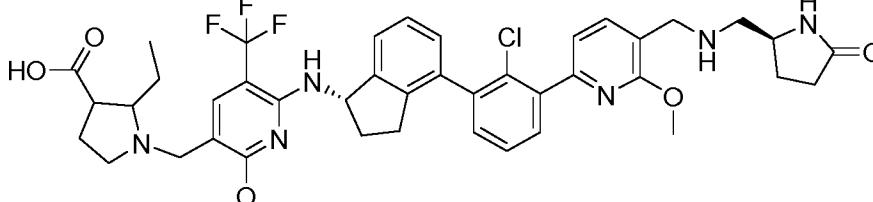
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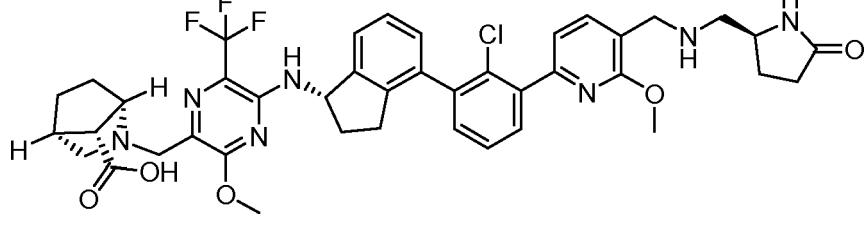
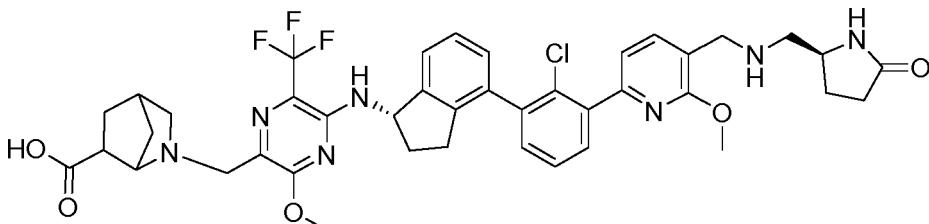
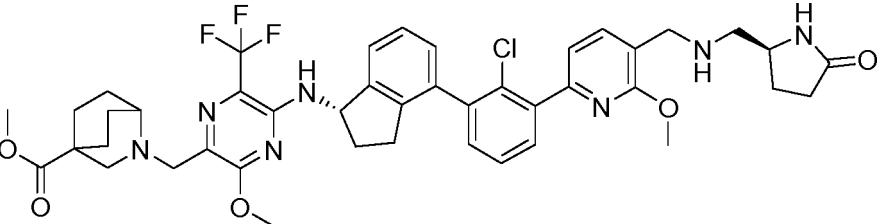
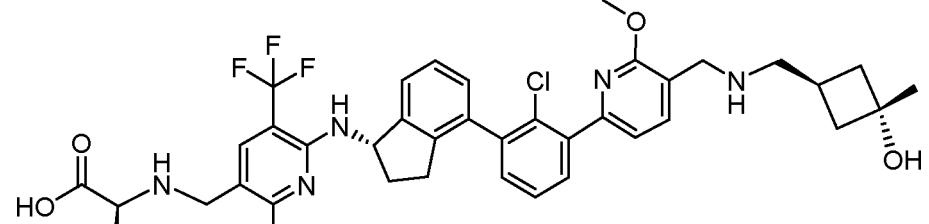
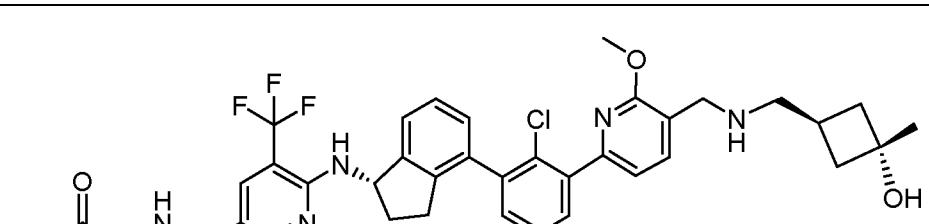
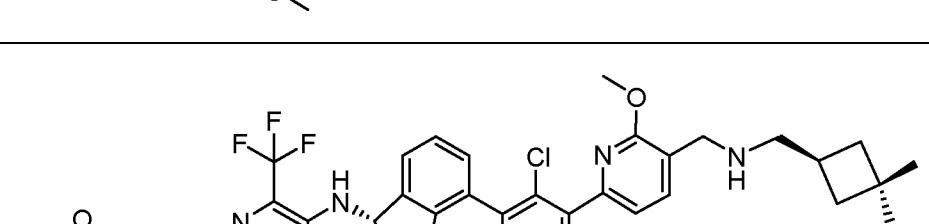
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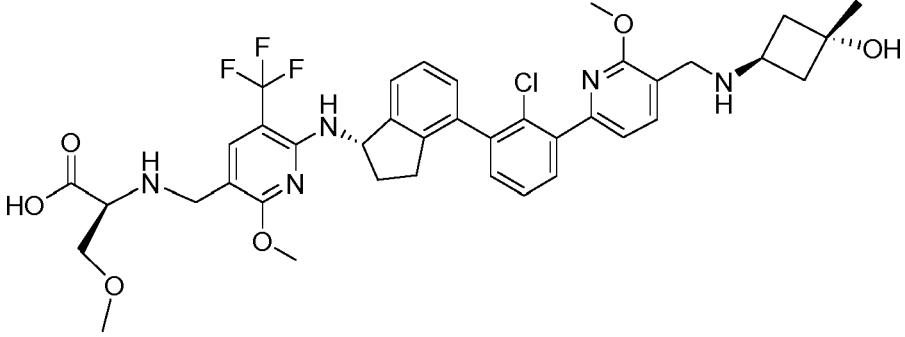
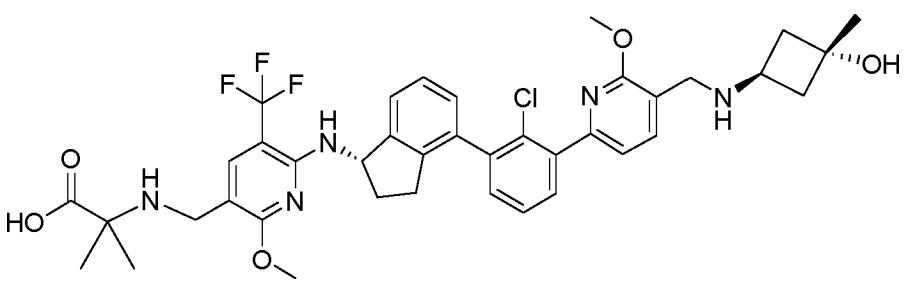
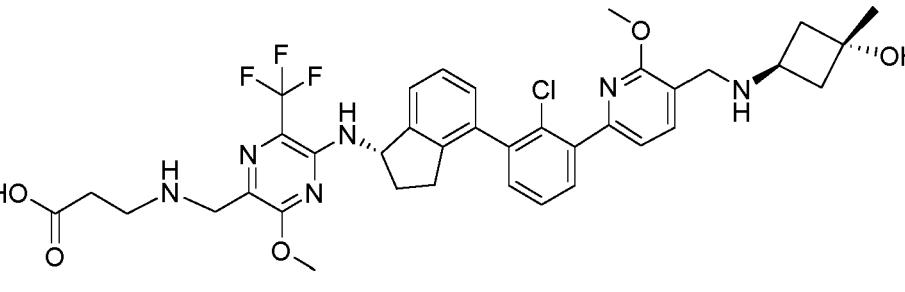
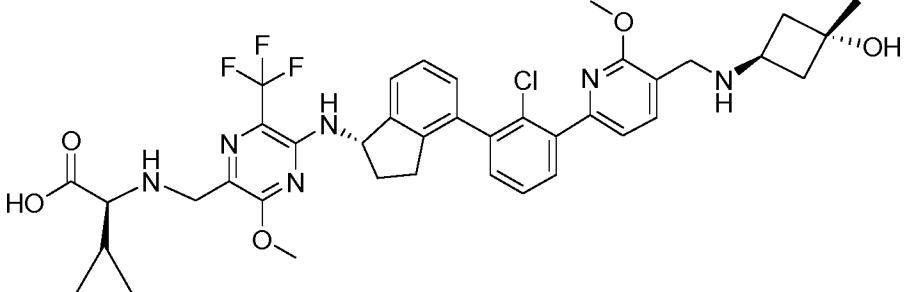
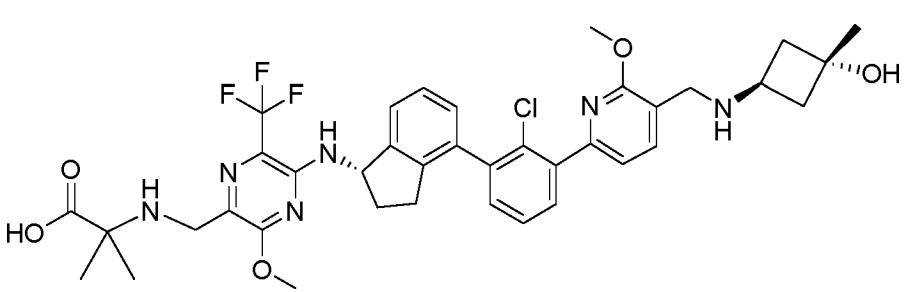
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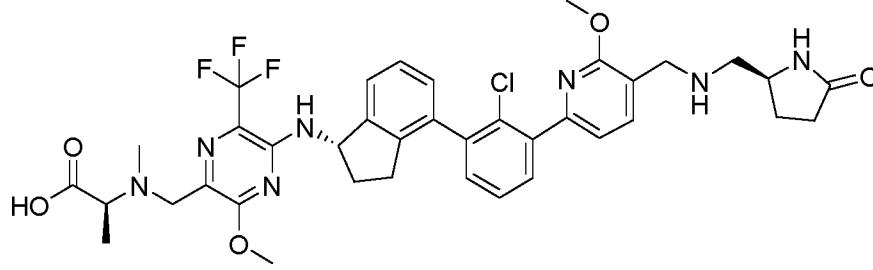
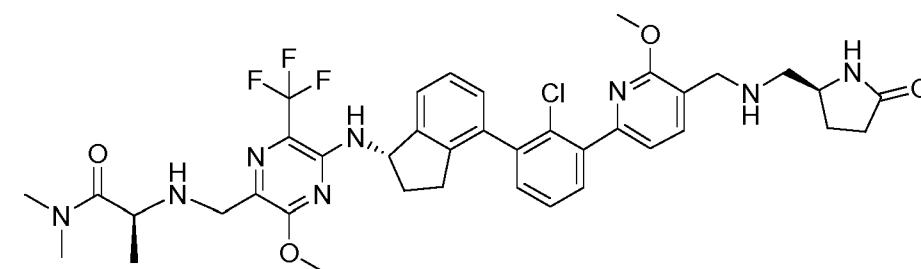
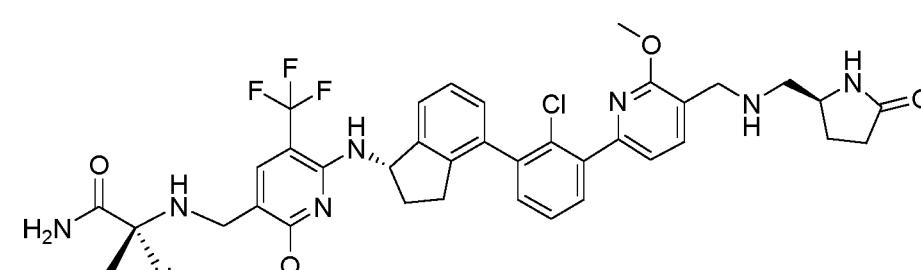
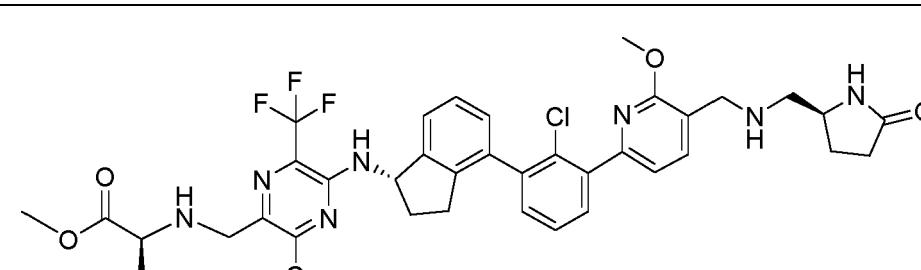
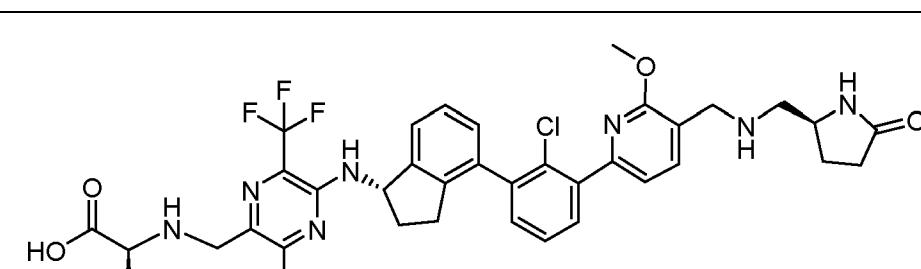
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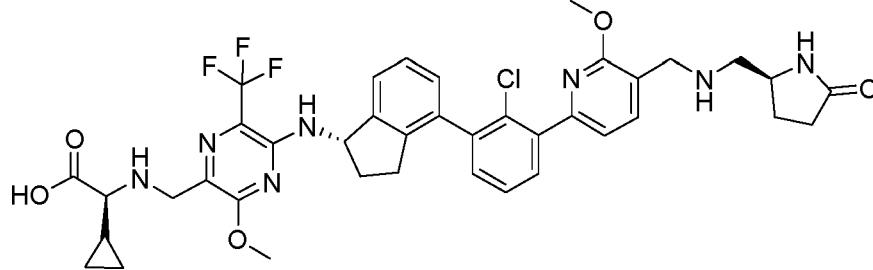
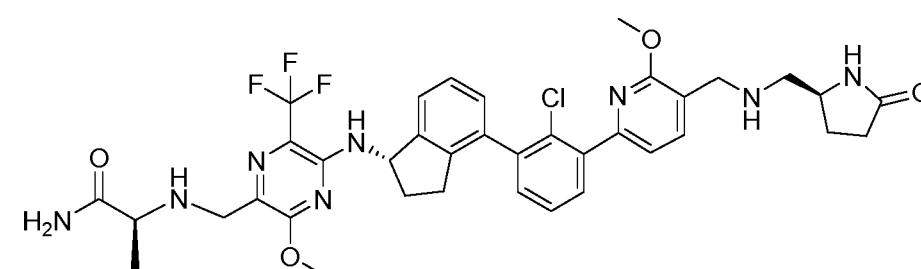
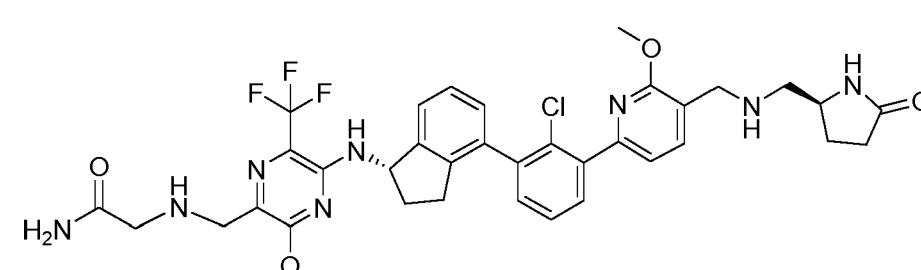
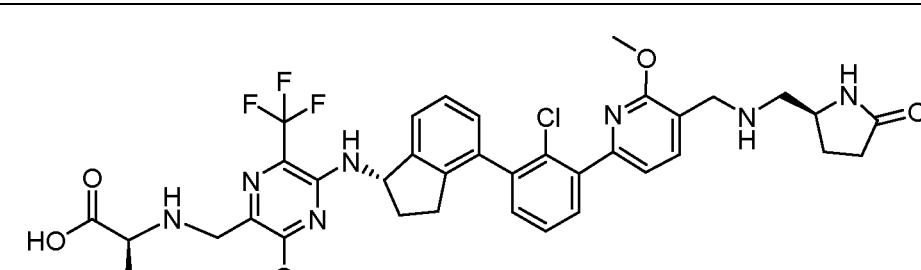
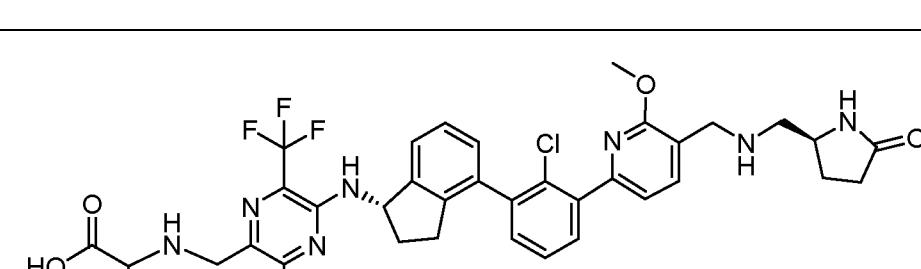
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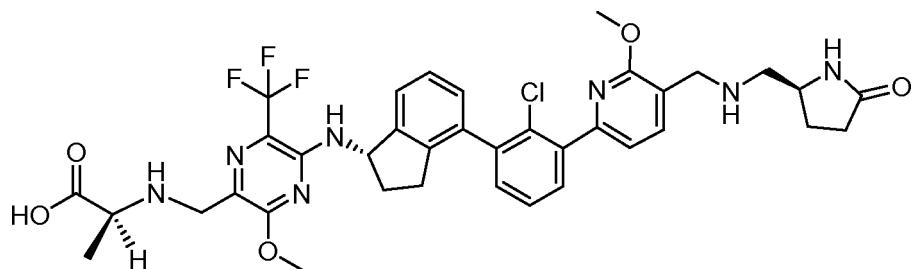
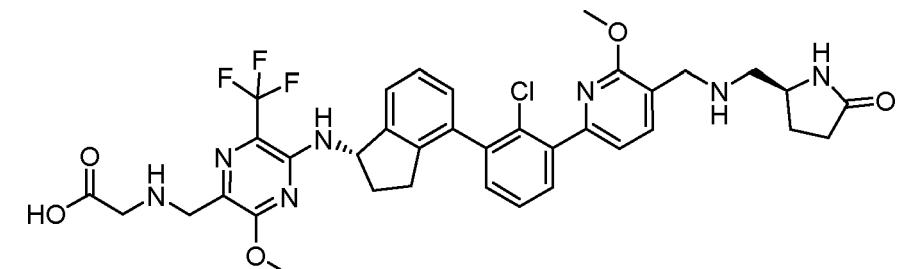
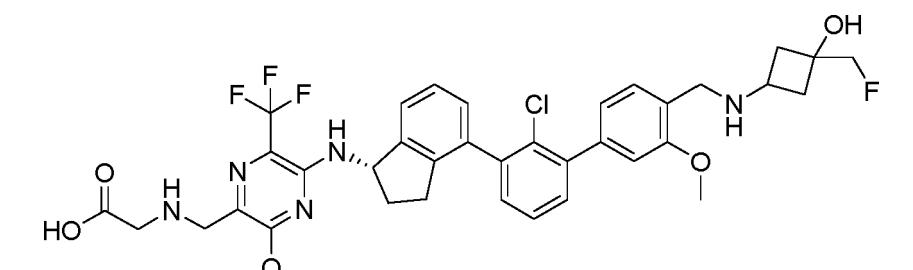
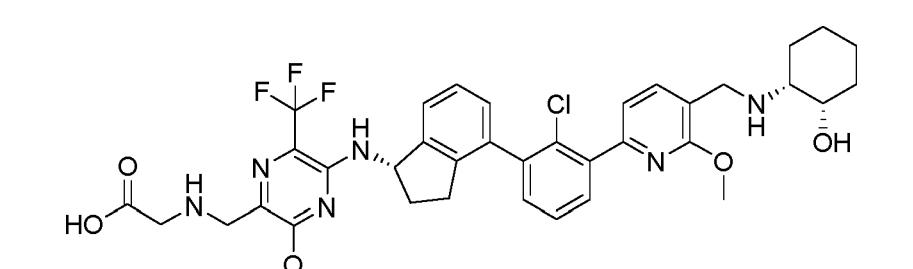
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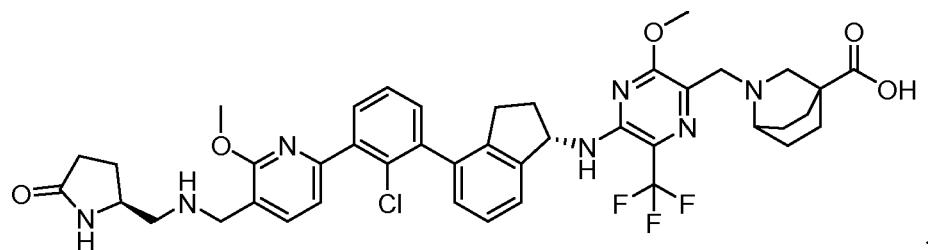
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11. Forbindelse ifølge krav 1, som er:



;

eller et farmasøytisk akseptabelt salt derav.

12. Farmasøytisk sammensetning omfattende en forbindelse ifølge et hvilket som helst av kravene 1-11 eller et farmasøytisk akseptabelt salt derav, og i det minste én farmasøytisk akseptabel eksipiens.
13. Farmasøytisk sammensetning ifølge krav 12, ytterligere omfattende i det minste ett ytterligere antikreftmiddel eller en terapi, valgt fra rituxan, doksorubicin, gemcitabin, nivolumab, pembrolizumab og ipilimumab, og i det minste én farmasøytisk akseptabel eksipiens.
14. Farmasøytisk sammensetning ifølge krav 12, ytterligere omfattende et ytterligere kreftmiddel, hvor det ytterligere antikreftmiddel er nivolumab, pembrolizumab, atezolizumab eller ipilimumab.