



(12) Translation of
european patent specification

(11) NO/EP 2697199 B1

NORWAY

(19) NO
(51) Int Cl.
C07D 213/64 (2006.01) A61K 31/4412 (2006.01)
A61K 31/444 (2006.01) A61P 35/00 (2006.01)
C07D 401/12 (2006.01) C07D 405/12 (2006.01)
C07D 409/12 (2006.01) C07D 413/12 (2006.01)
C07D 417/12 (2006.01) C07D 491/08 (2006.01)
C07D 491/107 (2006.01)

Norwegian Industrial Property Office

(21)	Translation Published	2016.10.31
(80)	Date of The European Patent Office Publication of the Granted Patent	2016.06.08
(86)	European Application Nr.	12719529.5
(86)	European Filing Date	2012.04.13
(87)	The European Application's Publication Date	2014.02.19
(30)	Priority	2011.04.13, US, 201161474821 P 2011.06.21, US, 201161499595 P
(84)	Designated Contracting States:	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
	Designated Extension States:	BA ME
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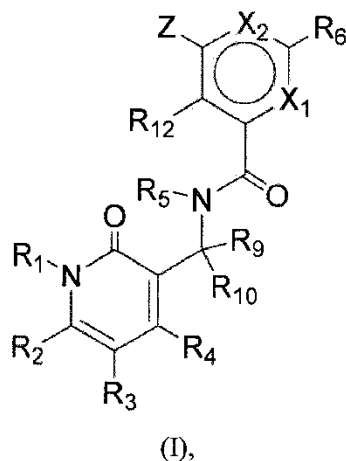
(54) Title **ARYL-OR HETEROARYL-SUBSTITUTED BENZENE COMPOUNDS**

(56) References
Cited: WO-A1-2011/140324 WO-A1-2011/140325 WO-A1-2012/005805
MIGUEL F. BRAÑA ET AL: "Reaction of N -(2-pyridylmethyl)-3,5-dimethylbenzamide and N -(3-pyridylmethyl)-3,5-dimethylbenzamide N -oxides with acetic anhydride", JOURNAL OF HETEROCYCLIC CHEMISTRY, vol. 19, no. 6, 1 November 1982 (1982-11-01), pages 1297-1300, XP55030201, ISSN: 0022-152X, DOI: 10.1002/jhet.5570190607

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Patentkrav

1. En forbindelse med formel (I) eller et farmasøytisk akseptabelt salt derav:



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hvor

X_1 er N eller CR_{11} ;

X_2 er N eller CR_{13} ;

10 Z er NR_7R_8 , OR_7 , $S(O)_nR_7$ eller $CR_7R_8R_{14}$, hvor n er 0, 1 eller 2;

hvor R_1 , R_5 , R_9 og R_{10} , uavhengig av hverandre, er H eller C_1 - C_6 alkyl eventuelt substituert med én eller flere substituent valgt fra gruppen bestående av halogen, hydroksyl, $COOH$, $C(O)O-C_1-C_6$ alkyl, cyano, C_1 - C_6 alkoksyl, amino, mono- C_1 - C_6 alkylamino, di- C_1 - C_6 alkylamino, C_3 - C_8 cykloalkyl, C_6 - C_{10} aryl, 4 til 12-leddet heterocykloalkyl, og 5- eller 6-leddet heteroaryl;

15 hvor R_2 , R_3 og R_4 , uavhengig av hverandre, er $-Q_1-T_1$, hvor Q_1 er en binding eller C_1 - C_3 alkyl-linker eventuelt substituert med halogen, cyano, hydroksyl eller C_1 - C_6 alkoksy, og T_1 er H, halogen, hydroksyl, $COOH$, cyano, eller R_{S1} , hvor R_{S1} er C_1 - C_3 alkyl, C_2 - C_6 alkenyl, C_2 - C_6 alkynyl, C_1 - C_6 alkoksyl, $C(O)O-C_1-C_6$ -alkyl, C_3 - C_8 cykloalkyl, C_6 - C_{10} aryl, amino, mono- C_1 - C_6 alkylamino, di- C_1 - C_6 -alkylamino, 4 til 12-leddet heterocykloalkyl eller 5- eller 6-leddet heteroaryl, og R_{S1} eventuelt er substituert med én eller flere substituent valgt fra gruppen bestående av halogen, hydroksyl, okso, $COOH$, $C(O)O-C_1-C_6$ alkyl, cyano, C_1 - C_6 alkoksyl, amino, mono- C_1 - C_6 alkylamino, di- C_1 - C_6 alkylamino, C_3 - C_8 -cykloalkyl, C_6 - C_{10} aryl, 4 til 12-leddet heterocykloalkyl, og 5- eller 6-leddet heteroaryl;

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R_6 er C_6 - C_{10} aryl eller 5- eller 6-leddet heteroaryl, som hver eventuelt er substituert med en eller flere $-Q_2-T_2$, hvor Q_2 er en binding eller C_1 - C_3 alkyl-

linker eventuelt substituert med halogen, cyano, hydroksyl eller C₁-C₆alkoksy, og
 T₂ er H, halogen, cyano, -OR_a, -NR_aR_b, -(NR_aR_bR_c)⁺A⁻, -C(O)R_a, -C(O)OR_a,
 -C(O)NR_aR_b, -NR_bC(O)R_a, -NR_bC(O)OR_a, -S(O)₂R_a, -S(O)₂NR_aR_b eller R_{S2},
 hvori hver av R_a, R_b og R_c er uavhengig av hverandre H eller R_{S3}, A⁻ er et
 5 farmasøytisk akseptabelt anion, og hver av R_{S2} og R_{S3}, uavhengig av hverandre,
 er C₁-C₆alkyl, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet heterocykloalkyl
 eller 5- eller 6-leddet heteroaryl, eller R_a og R_b, sammen med N-atomet til hvilket
 de er bundet, danner en 4- til 12-leddet heterocykloalkylring med 0 eller 1
 ytterligere heteroatom, og hver av R_{S2}, R_{S3} og 4- til 12-leddet heterocykloalkyl-
 10 ringen dannet av R_a og R_b, eventuelt er substituert med en eller flere -Q₃-T₃, hvor
 Q₃ er en binding eller C₁-C₃alkyl-linker hver eventuelt substituert med halogen,
 cyano, hydroksyl eller C₁-C₆alkoksy, og T₃ er valgt fra gruppen bestående av
 halogen, cyano, C₁-C₆alkyl, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet
 heterocykloalkyl, en 5- eller 6-leddet heteroaryl, OR_d, COOR_d, -S(O)₂R_d,
 15 -NR_dR_e og -C(O)NR_dR_e, hver av R_d og R_e uavhengig av hverandre er H eller
 C₁-C₆alkyl, eller -Q₃-T₃ er okso; eller til nærliggende -Q₂-T₂, sammen med
 atomene til hvilke de er bundet, danner en 5- eller 6-leddet ring eventuelt
 inneholdende 1-4 heteroatomer valgt fra N, O og S og eventuelt substituert med
 én eller flere substituenten valgt fra gruppen bestående av halogen, hydroksyl,
 20 COOH, C(O)O-C₁-C₆alkyl, cyano, C₁-C₆alkoksy, amino, mono-C₁-C₆-
 alkylamino, di-C₁-C₆alkylamino, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet
 heterocykloalkyl, og 5- eller 6-leddet heteroaryl;
 R₇ er -Q₄-T₄, hvori Q₄ er en binding, C₁-C₄alkyl-linker, eller C₂-C₄alkenyl-linker,
 hver linker er eventuelt substituert med halogen, cyano, hydroksyl eller C₁-C₆-
 25 alkoksy, og T₄ er H, halogen, cyano, NR_fR_g, -OR_f, -C(O)R_f, -C(O)OR_f,
 -C(O)NR_fR_g, -C(O)NR_fOR_g, -NR_fC(O)R_g, -S(O)₂R_f eller R_{S4}, hvori hver av R_f og
 R_g er uavhengig av hverandre H eller R_{S5}, hver av R_{S4} og R_{S5} er uavhengig C₁-
 C₆alkyl, C₂-C₆alkenyl, C₂-C₆alkynyl, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-
 leddet heterocykloalkyl eller 5- eller 6-leddet heteroaryl, og hver av R_{S4} og R_{S5} er
 30 eventuelt substituert med en eller flere -Q₅-T₅, hvor Q₅ er en binding, C(O),
 C(O)NR_k, NR_kC(O), S(O)₂ eller C₁-C₃alkyl-linker, R_k er H eller C₁-C₆alkyl, og
 T₅ er H, halogen, C₁-C₆alkyl, hydroksyl, cyano, C₁-C₆alkoksy, amino, mono-
 C₁-C₆alkylamino, di-C₁-C₆alkylamino, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-
 leddet heterocykloalkyl, en 5- eller 6-leddet heteroaryl, eller S(O)_qR_q hvori q er
 35 0, 1 eller 2 og R_q er C₁-C₆alkyl, C₂-C₆alkenyl, C₂-C₆alkynyl, C₃-C₈cykloalkyl,
 C₆-C₁₀aryl, 4- til 12-leddet heterocykloalkyl eller 5- eller 6-leddet heteroaryl, og
 T₅ eventuelt er substituert med én eller flere substituenten valgt fra gruppen
 bestående av halogen, C₁-C₆alkyl, hydroksyl, cyano, C₁-C₆alkoksy, amino,

mono-C₁-C₆alkylamino, di-C₁-C₆alkylamino, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet heterocykloalkyl, og 5- eller 6-leddet heteroaryl, bortsett fra når T₅ er H, halogen, hydroksyl eller cyano; eller -Q₅-T₅ er okso;

hver av R₈, R₁₁, R₁₂ og R₁₃, uavhengig av hverandre, er H, halogen, hydroksyl, COOH, cyano, R_{S6}, OR_{S6}, eller COOR_{S6}, hvori R_{S6} er C₁-C₆alkyl, C₂-C₆alkenyl, C₂-C₆alkynyl, C₃-C₈cykloalkyl, 4- til 12-leddet heterocykloalkyl, amino, mono-C₁-C₆alkylamino eller di-C₁-C₆alkylamino, og R_{S6} eventuelt er substituert med én eller flere substituenten valgt fra gruppen bestående av halogen, hydroksyl,

COOH, C(O)O-C₁-C₆alkyl, cyano, C₁-C₆alkoksyl, amino, mono-C₁-C₆-alkylamino, og di-C₁-C₆alkylamino; eller R₇ og R₈, sammen med N-atomet til hvilket de er bundet, danner en 4- til 11-leddet heterocykloalkylring med 0 til 2 ytterligere heteroatomer, eller R₇ og R₈, sammen med C-atomet som de er bundet til, danner C₃-C₈-cykloalkyl eller en 4- til 11-leddet heterocykloalkylring med 1 til 3 heteroatomer, og hver av de 4- til 11-leddete heterocykloalkylringer eller

C₃-C₈cykloalkyl dannet av R₇ og R₈ er eventuelt substituert med en eller flere -Q₆-T₆, hvor Q₆ er en binding, C(O), C(O)NR_m, NR_mC(O), S(O)₂ eller C₁-C₃-alkyl-linker, R_m er H eller C₁-C₆alkyl, og T₆ er H, halogen, C₁-C₆alkyl, hydroksyl, cyano, C₁-C₆alkoksyl, amino, mono-C₁-C₆alkylamino, di-C₁-C₆-

alkylamino, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet heterocykloalkyl, en 5- eller 6-leddet heteroaryl, eller S(O)_pR_p hvori p er 0, 1 eller 2 og R_p er C₁-C₆alkyl, C₂-C₆alkenyl, C₂-C₆alkynyl, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet heterocykloalkyl eller 5- eller 6-leddet heteroaryl, og T₆ eventuelt er substituert med én eller flere substituenten valgt fra gruppen bestående av halogen, C₁-C₆-alkyl, hydroksyl, cyano, C₁-C₆alkoksyl, amino, mono-C₁-C₆alkylamino, di-C₁-

C₆alkylamino, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet heterocykloalkyl, og 5- eller 6-leddet heteroaryl, bortsett fra når T₆ er H, halogen, hydroksyl eller cyano; eller -Q₆-T₆ er okso; og R₁₄ er fraværende, H, eller C₁-C₆alkyl eventuelt substituert med én eller flere substituenten valgt fra gruppen bestående av halogen, hydroksyl, COOH, C(O)O-

C₁-C₆alkyl, cyano, C₁-C₆alkoksyl, amino, mono-C₁-C₆alkylamino, di-C₁-C₆-alkylamino, C₃-C₈cykloalkyl, C₆-C₁₀aryl, 4- til 12-leddet heterocykloalkyl, og 5- eller 6-leddet heteroaryl.

2. Forbindelse ifølge krav 1, hvor R₆ er fenyl substituert med en eller flere -Q₂-T₂;

eller R₆ er 5- eller 6-leddet heteroaryl inneholdende 1-3 ytterligere heteroatomer valgt fra N, O og S og eventuelt substituert med en eller flere -Q₂-T₂, fortrinnsvis er 5- eller 6-leddet heteroaryl pyridinyl, pyrazolyl, pyrimidinyl, kinolinyl, tetrazolyl, oksazolyl,

isoksazolyl, tiazolyl, isotiazolyl, furyl eller tienyl, som hver eventuelt er substituert med en eller flere $-Q_2-T_2$.

3. Forbindelse ifølge hvilket som helst av kravene 1-2, hvor T_2 er $-NR_aR_b$ eller

- 5 $-C(O)NR_aR_b$, hvori hver av R_a og R_b er uavhengig H eller C_1-C_6 alkyl, eller R_a og R_b , sammen med N-atomet til hvilket de er bundet, danner en 4- til 12-leddet heterocykloalkylring med 0 eller 1 ytterligere heteroatom, C_1-C_6 alkyl, og den 4- til 12-leddete heterocykloalkylringen er eventuelt substituert med en eller flere $-Q_3-T_3$, og Q_2 er C_1-C_3 alkyl-linker eventuelt substituert med halogen eller hydroksyl.

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4. Forbindelse ifølge hvilket som helst av kravene 1-3, hvor R_7 er C_1-C_6 alkyl, C_3-C_8 -cykloalkyl eller 4- til 12-leddet heterosykloalkyl, hver eventuelt substituert med en eller flere $-Q_5-T_5$; eller R_7 er 4- til 12-leddet heterocykloalkyl eventuelt substituert med en eller flere $-Q_5-T_5$, fortrinnsvis er R_7 piperidinyll, tetrahydropyran, tetrahydro-2H-
15 tiopyranyl, cyklopentyl eller cykloheksyl, hver eventuelt substituert med en eller flere $-Q_5-T_5$.

5. Forbindelse ifølge hvilket som helst av kravene 1-4, hvor (i) en eller flere $-Q_5-T_5$ er okso; eller (ii) T_5 er H, halogen, C_1-C_6 alkyl, C_1-C_6 alkoksyl, C_3-C_8 cykloalkyl, C_6-C_{10} -aryl eller 4- til 12-leddet heterocykloalkyl; eller (iii) når Q_5 er en binding, er T_5 amino, mono- C_1-C_6 alkylamino, di- C_1-C_6 alkylamino, C_1-C_6 alkyl, C_3-C_8 cykloalkyl, eller 4- til 12-leddet heterocykloalkyl; eller (iv) når Q_5 er CO, $S(O)_2$ eller $NHC(O)$, er T_5 C_1-C_6 -alkyl, C_1-C_6 alkoksyl, C_3-C_8 cykloalkyl, eller 4- til 12-leddet heterocykloalkyl; eller (v) når Q_5 er C_1-C_3 alkyl-linker, er T_5 H, C_6-C_{10} aryl, C_3-C_8 cycloalkyl, 4- til 12-leddet
25 heterocykloalkyl eller $S(O)_qR_q$.

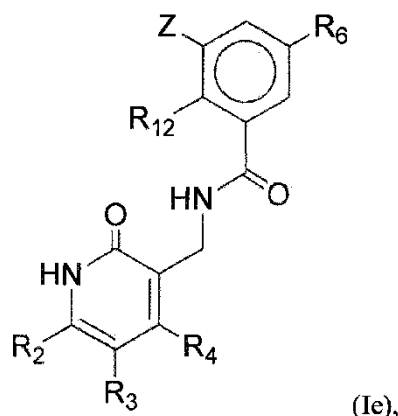
6. Forbindelse ifølge hvilket som helst av kravene 1-5, hvor hver av R_1 og R_{11} er H.

7. Forbindelse ifølge hvilket som helst av kravene 1-6, hvor hver av R_2 og R_4 ,
30 uavhengig er H eller C_1-C_6 alkyl eventuelt substituert med amino, mono- C_1-C_6 -alkylamino, di- C_1-C_6 alkylamino eller C_6-C_{10} aryl, fortrinnsvis er hver R_2 og R_4 metyl.

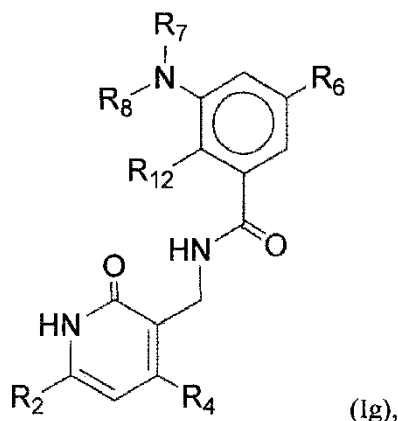
8. Forbindelse ifølge hvilket som helst av kravene 1-7, hvor R_{12} er H, metyl, etyl, etenyl eller halogen, R_8 er H, metyl eller etyl, og R_{13} er H eller metyl.

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9. Forbindelse ifølge hvilket som helst av kravene 1, hvor forbindelse er av formel (Ie):



5 fortrinnsvis er forbindelsen av formel (Ig):

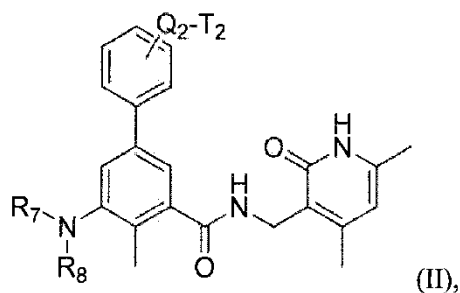


hvor R_2 , R_4 og R_{12} hver uavhengig er C_{1-6} alkyl.

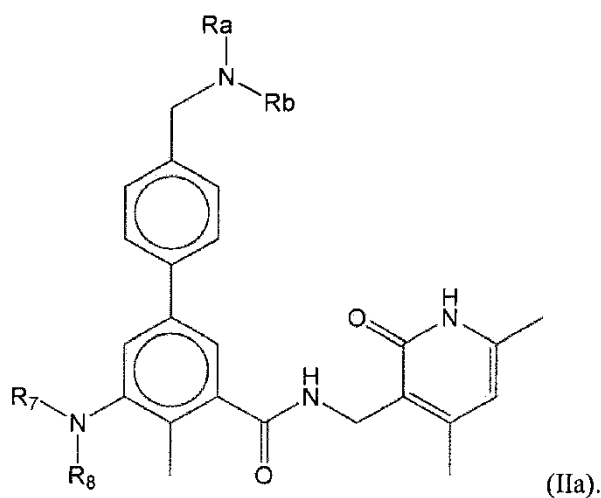
10 **10.** Forbindelse ifølge hvilket som helst av kravene 1 og 9, hvor R_6 er C_6 - C_{10} aryl eller 5- eller 6-leddet heteroaryl, hvor hver er eventuelt uavhengig substituert med en eller flere - Q_2 - T_2 , hvor Q_2 er en binding eller C_1 - C_3 alkyl-linker, og T_2 er H, halogen, cyano, $-OR_a$, $-NR_aR_b$, $-(NR_aR_bR_c)^+A^-$, $-C(O)NR_aR_b$, $-NR_bC(O)R_a$, $-S(O)_2R_a$ eller R_{S2} , hvori hver R_a og R_b , uavhengig er H eller R_{S3} , hver R_{S2} og R_{S3} , uavhengig, er C_1 - C_6 -alkyl, eller R_a og R_b , sammen med N-atomet til hvilket de er bundet, danner en 4- til 7-
15 leddet heterocycloalkylring som har 0 eller 1 ytterligere heteroatom, og hver R_{S2} , R_{S3} , og den 4- til 7-leddete heterocycloalkylringen dannet av R_a og R_b , er eventuelt, uavhengig substituert med en eller flere - Q_3 - T_3 , hvor Q_3 er en binding eller C_1 - C_3 alkyl-linker og T_3 er valgt fra gruppen bestående av halogen, C_1 - C_6 alkyl, 4- til 7-leddet heterocycloalkyl, OR_d , $-S(O)_2R_d$ og $-NR_dR_e$, hver R_d og R_e uavhengig er H eller C_1 - C_6 -
20 alkyl, eller - Q_3 - T_3 er okso; eller hver nærliggende - Q_2 - T_2 , sammen med atomene til

hvilke de er bundet, danner en 5- eller 6-leddet ring eventuelt inneholdende 1-4 heteroatomer valgt fra N, O og S.

11. Forbindelse ifølge hvilket som helst av kravene 1 og 9, hvor forbindelsen er av formel (II):



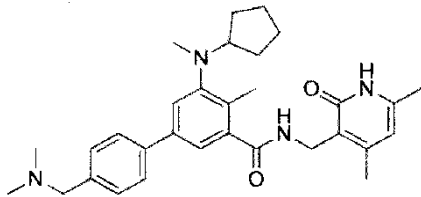
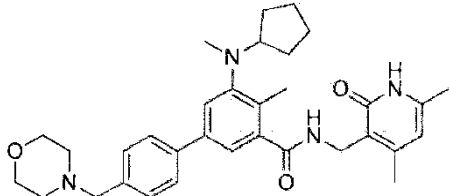
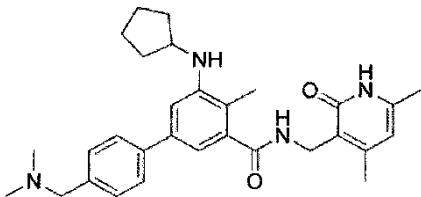
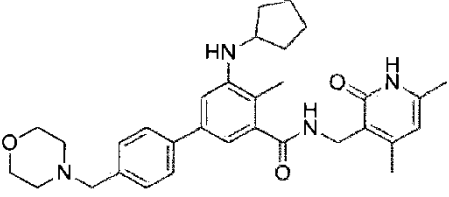
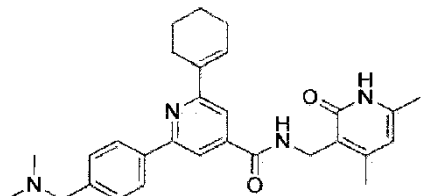
hvor Q_2 er en binding eller metyl-linker, T_2 er H, halogen, $-OR_a$, $-NR_aR_b$, $-(NR_aR_bR_c)^+A^-$ eller $-S(O)_2NR_aR_b$, R_7 er piperidinyl, tetrahydropyran, cyclopentyl, eller cykloheksyl, hver eventuelt substituert med én $-Q_5-T_5$ og R_8 er etyl, fortrinnsvis forbindelsen med formel (IIa):

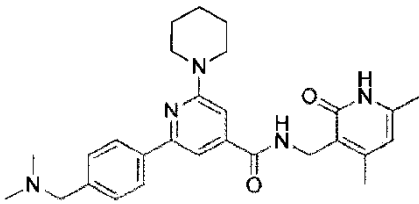
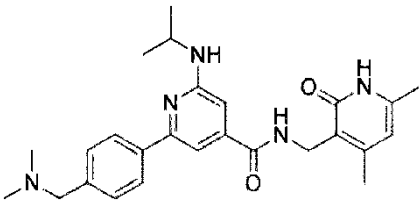
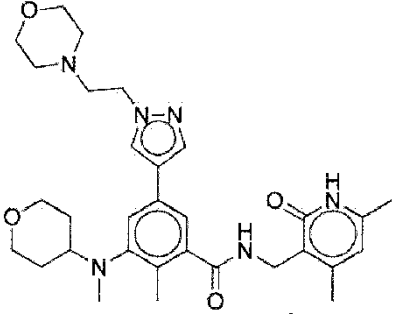
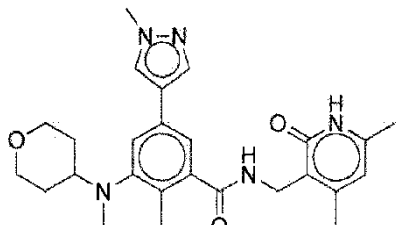
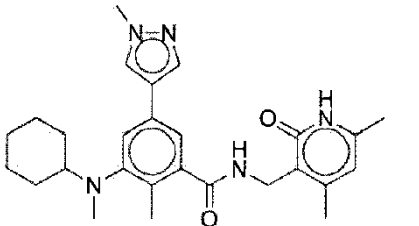
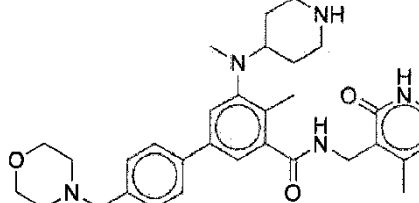


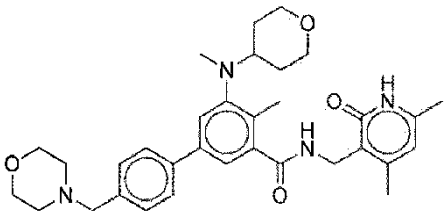
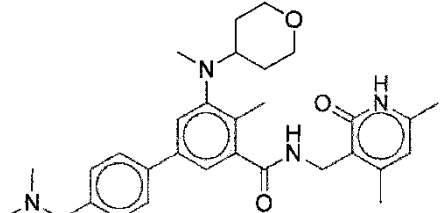
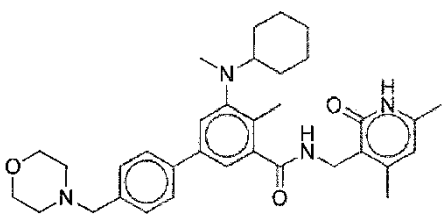
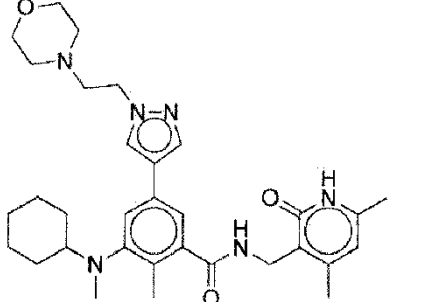
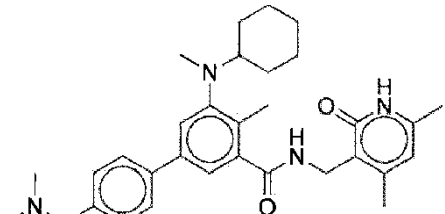
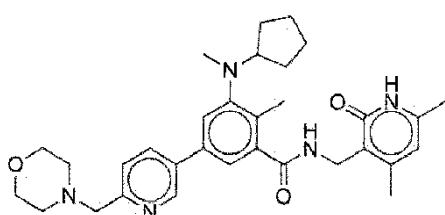
12. Forbindelse ifølge hvilket som helst av kravene 1, 9, og 11, hvor (i) hver R_a og R_b , uavhengig er H eller C_1-C_6 alkyl eventuelt substituert med en eller flere $-Q_3-T_3$, (ii) en av R_a og R_b er H, eller (iii) R_a og R_b , sammen med N-atomet til hvilket de er bundet, danner en 4- til 7-leddet heterocycloalkylring som har 0 eller 1 ytterligere heteroatomer til N-atomet og ringen er eventuelt substituert med en eller flere $-Q_3-T_3$, fortrinnsvis R_a og R_b , sammen med N-atomet til hvilket de er bundet, danner azetidiny, pyrrolidinyl, imidazolidinyl, pyrazolidinyl, oksazolidinyl, isoksazolidinyl, triazolidinyl, tetrahydropyran, piperidinyl, 1,2,3,6-tetrahydropyridinyl, piperazinyl,

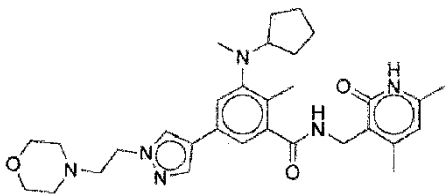
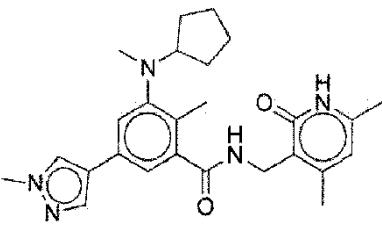
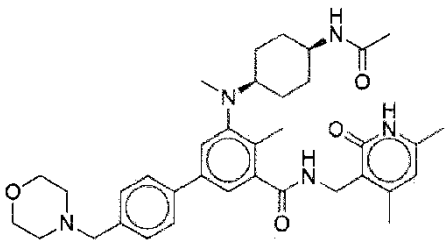
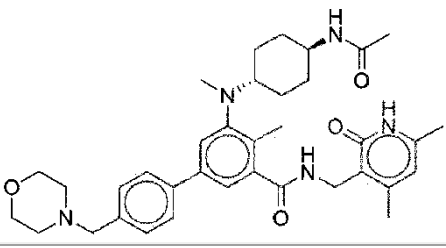
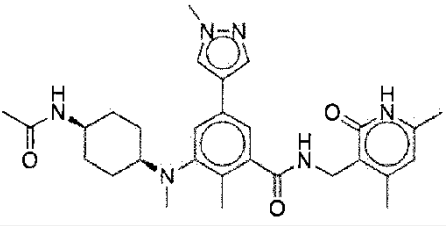
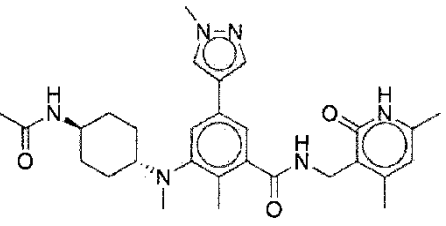
eller morfolinyl, og ringen er eventuelt substitueret med en eller flere -Q₃-T₃, og mer foretrykket danner R_a og R_b, sammen med N-atomet til hvilket de er bundet, morfolinyl.

5 13. Forbindelse ifølge krav 1, hvor forbindelsen er valgt fra

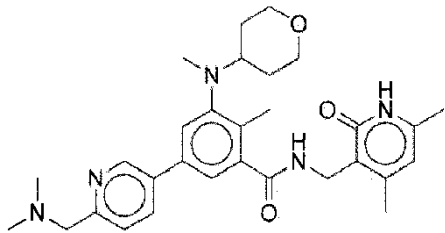
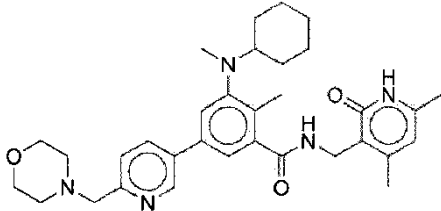
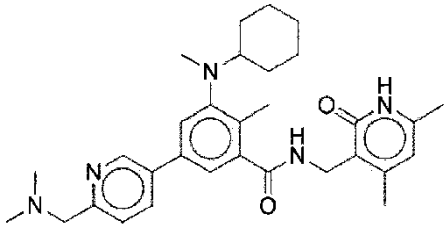
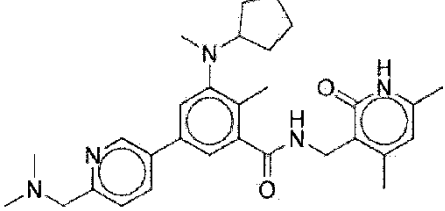
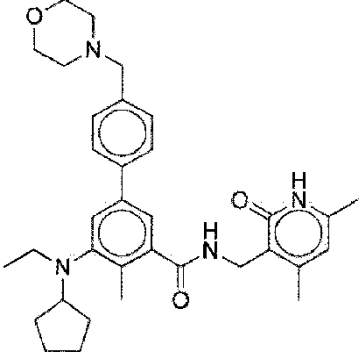
Forbindelse nummer	Struktur
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4	
5	

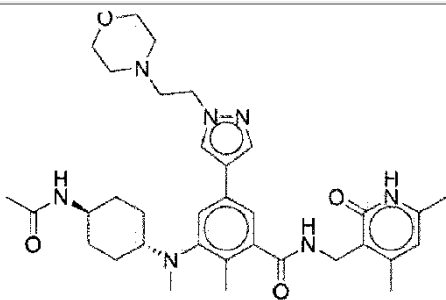
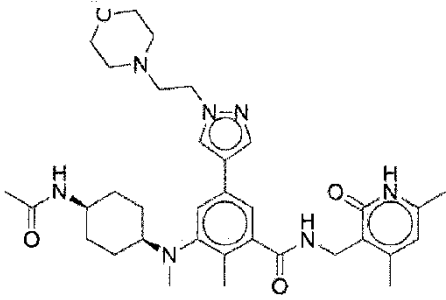
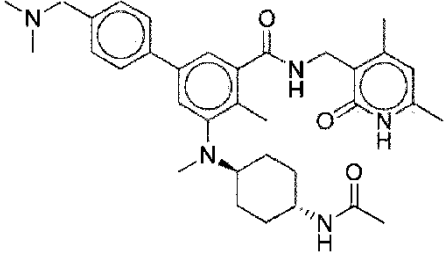
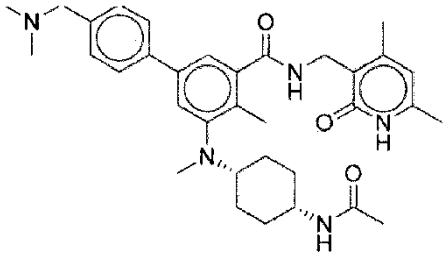
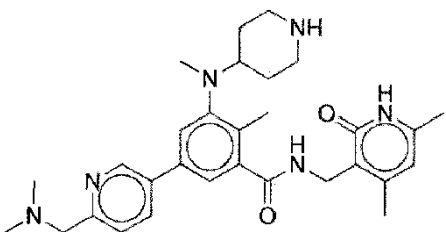
Forbindelse nummer	Struktur
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11	

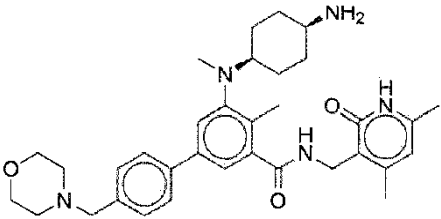
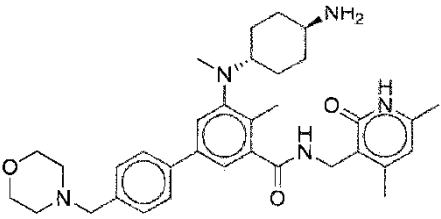
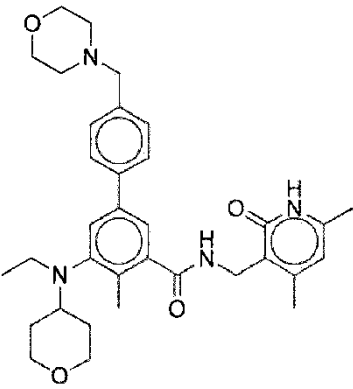
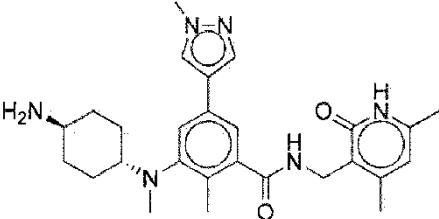
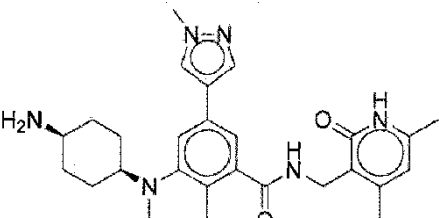
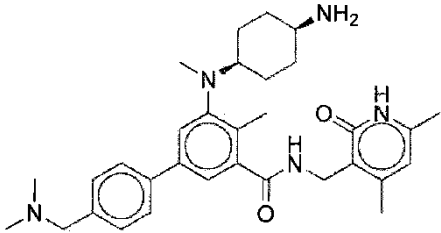
Forbindelse nummer	Struktur
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Forbindelse nummer	Struktur
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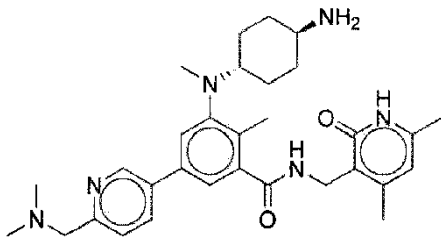
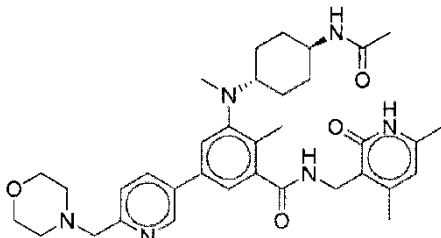
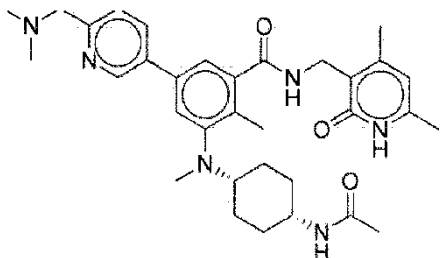
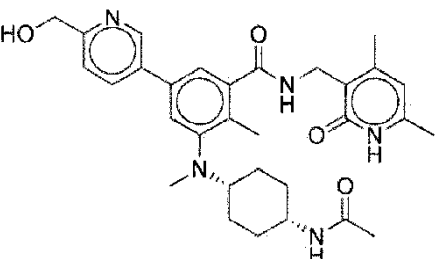
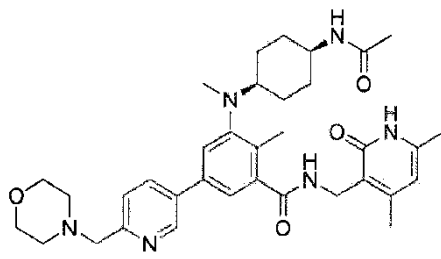
Forbindelse nummer	Struktur
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Forbindelse nummer	Struktur
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35	
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Forbindelse nummer	Struktur
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41	

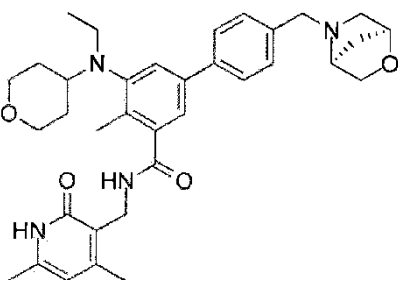
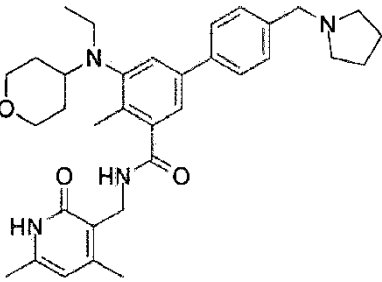
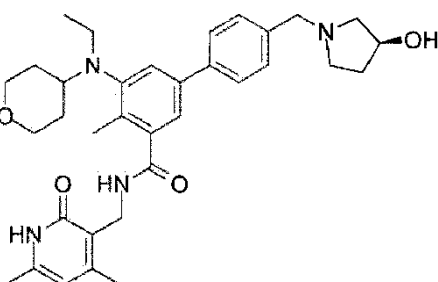
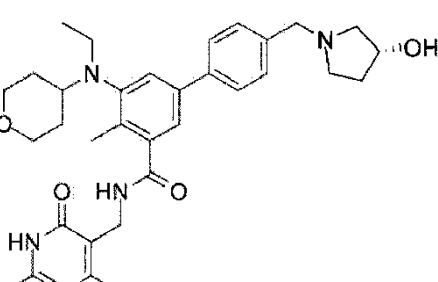
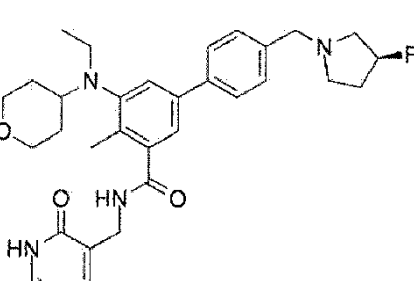
Forbindelse nummer	Struktur
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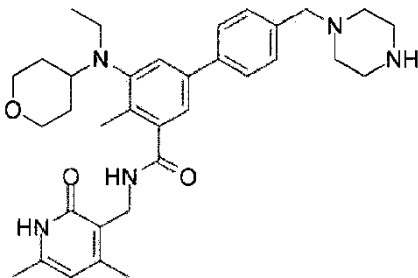
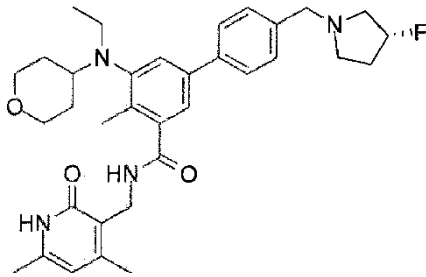
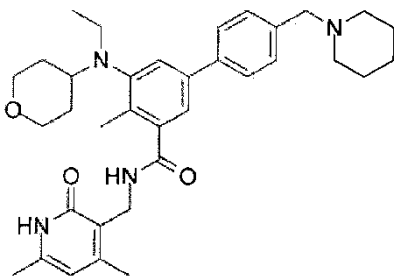
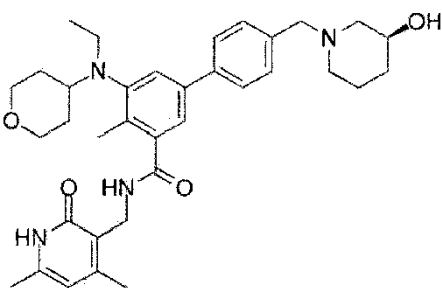
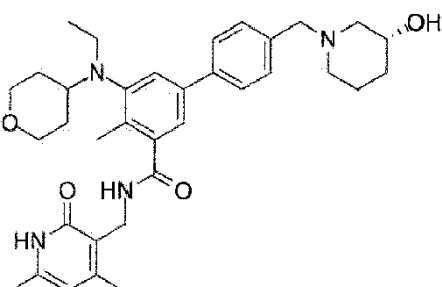
Forbindelse nummer	Struktur
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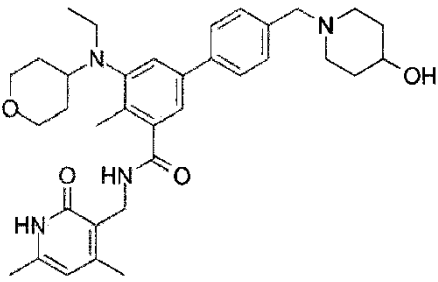
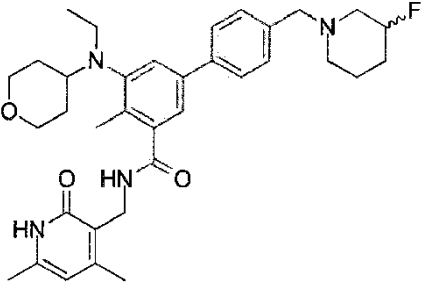
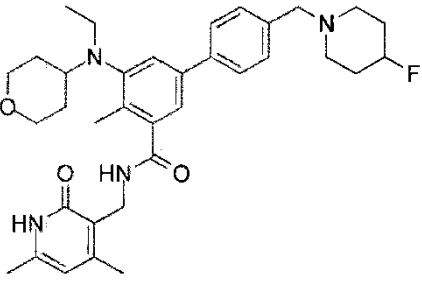
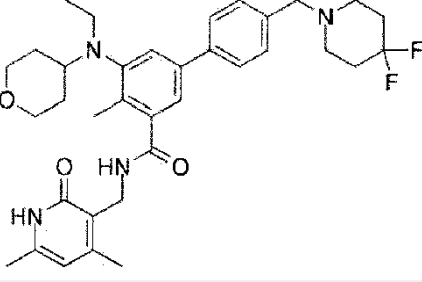
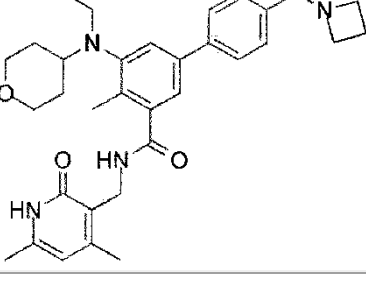
Forbindelse nummer	Struktur
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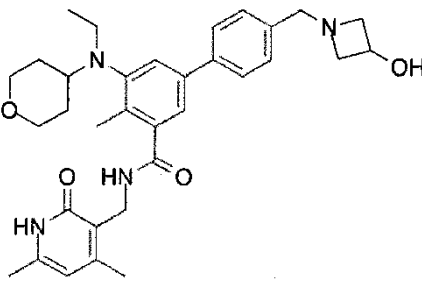
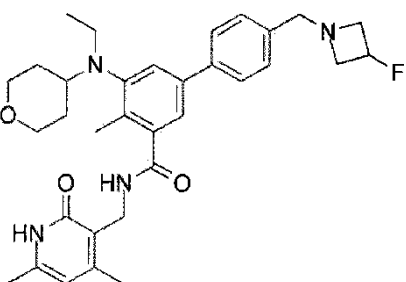
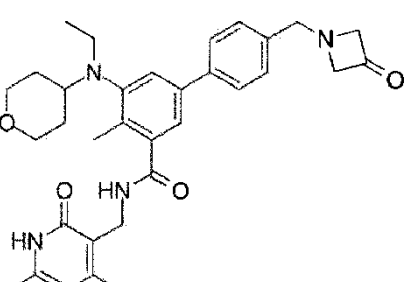
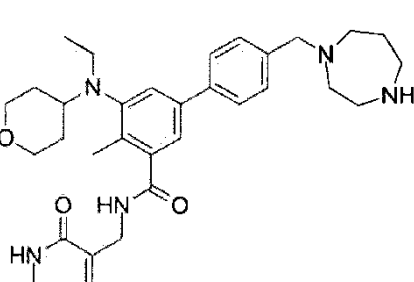
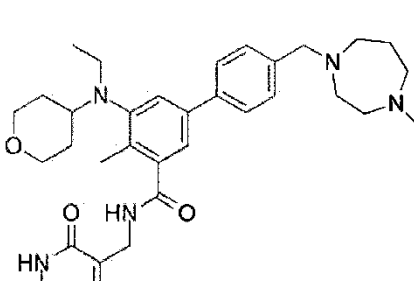
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59	 <chem>Cc1cc(C)nc(C1CCOCC1)c1ccc(CCN2C(=O)NC(=O)c3cc(C)nc3n1)c1</chem>
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61	 <chem>Cc1cc(C)nc(C1CCOCC1)c1ccc(CCN2C(=O)NC(=O)c3cc(C)nc3n1)c1</chem>
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Forbindelse nummer	Struktur
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65	
66	
67	

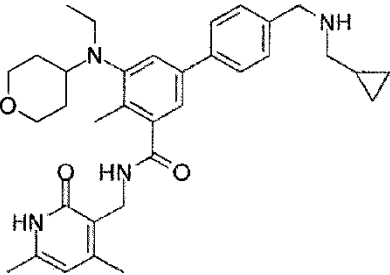
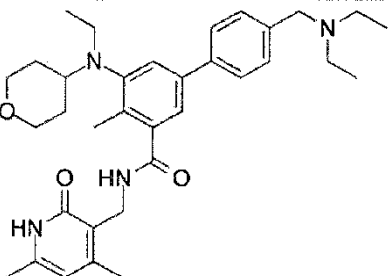
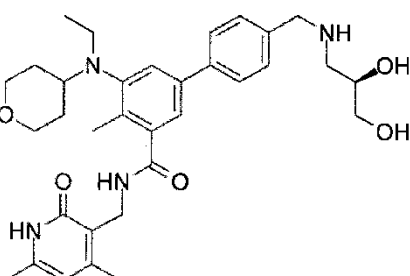
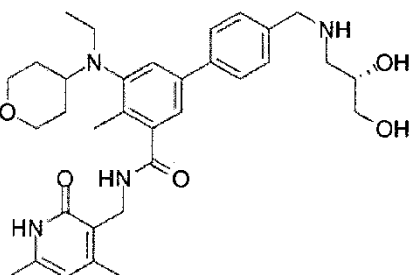
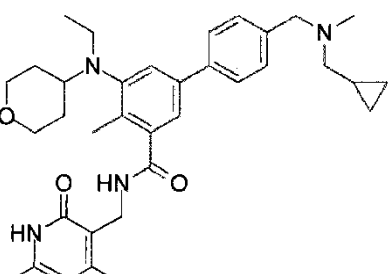
Forbindelse nummer	Struktur
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Forbindelse nummer	Struktur
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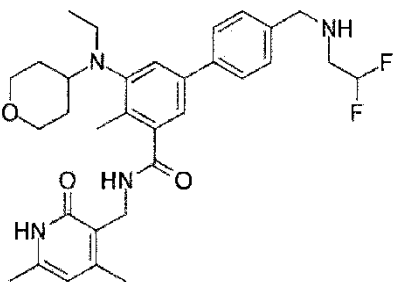
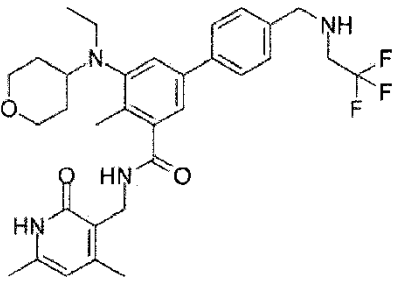
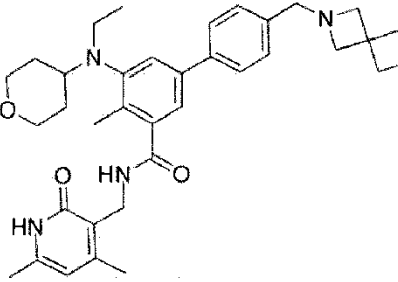
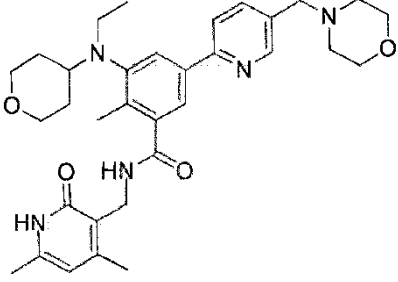
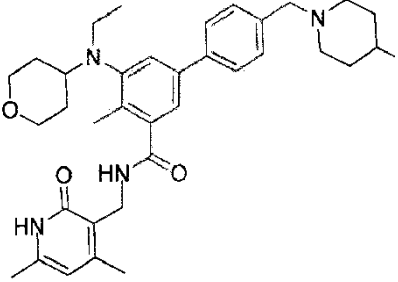
Forbindelse nummer	Struktur
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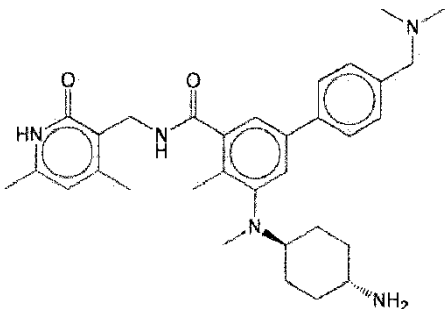
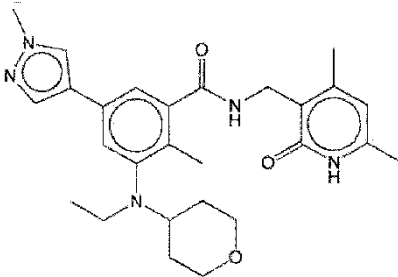
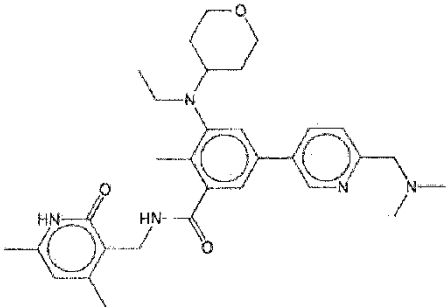
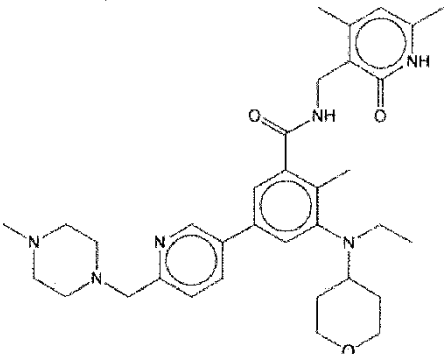
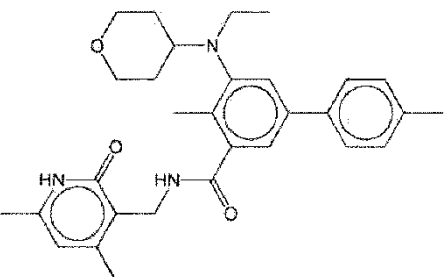
Forbindelse nummer	Struktur
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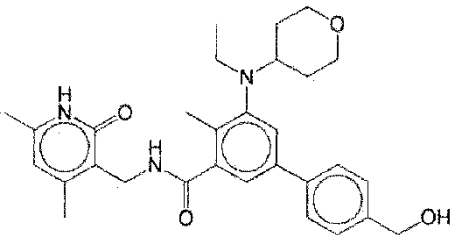
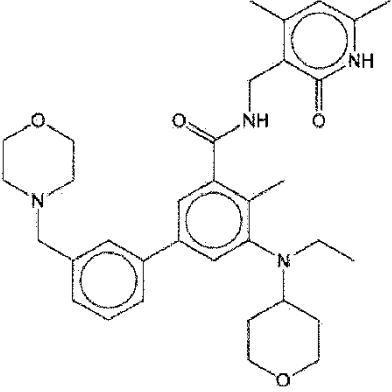
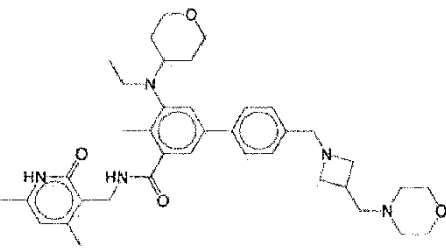
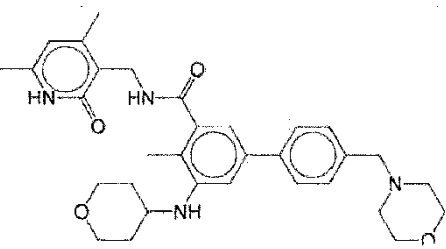
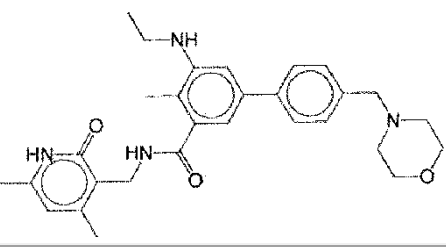
Forbindelse nummer	Struktur
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92	

Forbindelse nummer	Struktur
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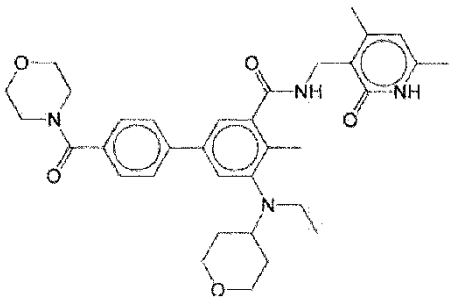
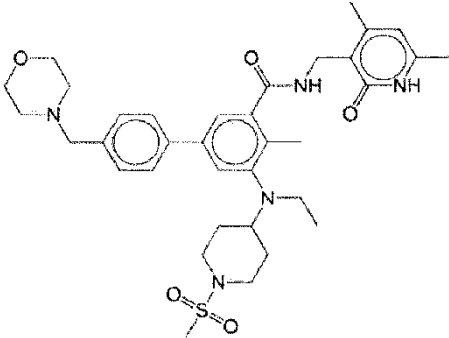
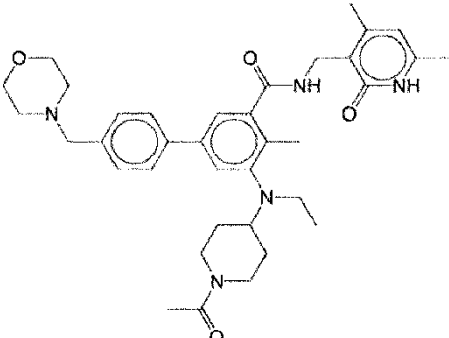
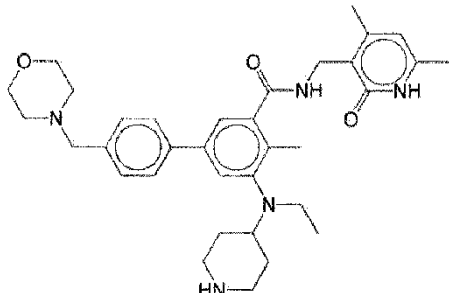
Forbindelse nummer	Struktur
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99	 <chem>CC1(C)C(=O)NC(C1)C(=O)NCC(=O)Nc2cc(C)c(C)c(C2)c3cc(C)cc(C3)N(CCC4OCCOCC4)c5ccc(cc5)NCCO</chem>
100	 <chem>CC1(C)C(=O)NC(C1)C(=O)NCC(=O)Nc2cc(C)c(C)c(C2)c3cc(C)cc(C3)N(CCC4OCCOCC4)c5ccc(cc5)N(CCCO)CO</chem>
101	 <chem>CC1(C)C(=O)NC(C1)C(=O)NCC(=O)Nc2cc(C)c(C)c(C2)c3cc(C)cc(C3)N(CCC4OCCOCC4)c5ccc(cc5)NCCN</chem>
102	 <chem>CC1(C)C(=O)NC(C1)C(=O)NCC(=O)Nc2cc(C)c(C)c(C2)c3cc(C)cc(C3)N(CCC4OCCOCC4)c5ccc(cc5)NCCN</chem>

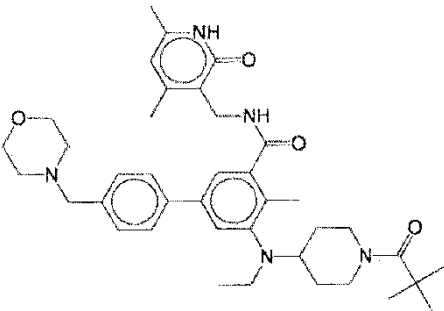
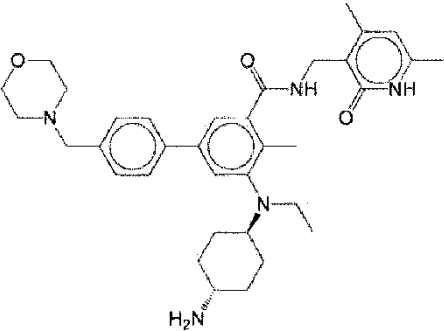
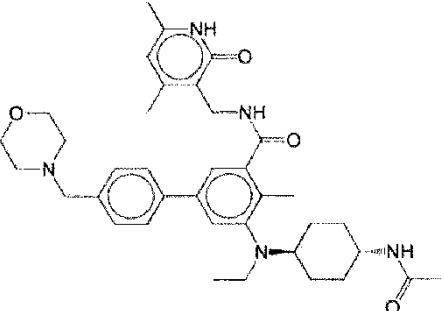
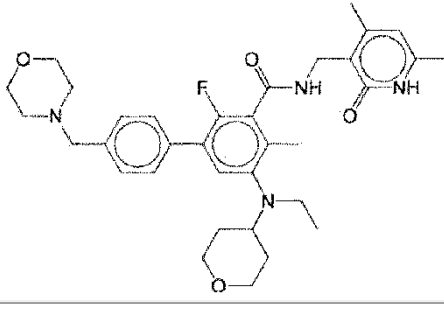
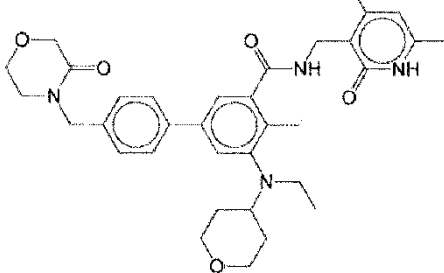
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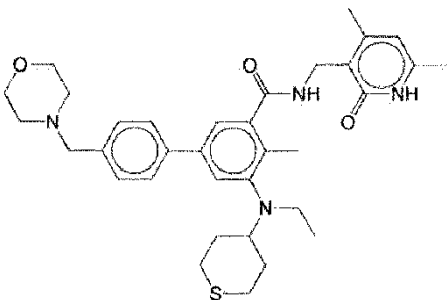
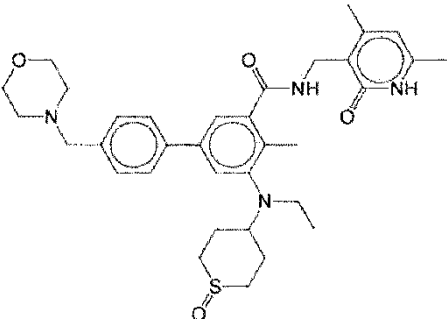
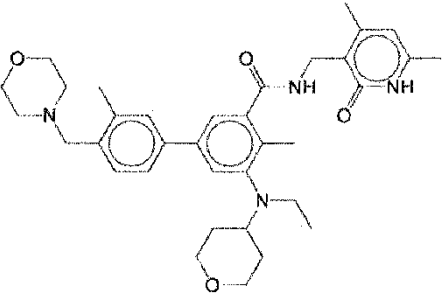
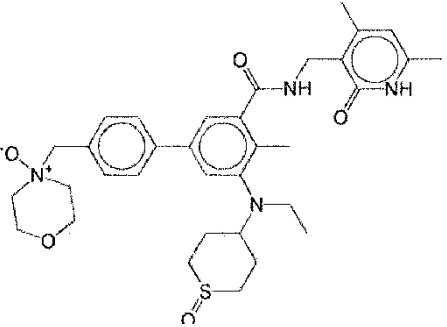
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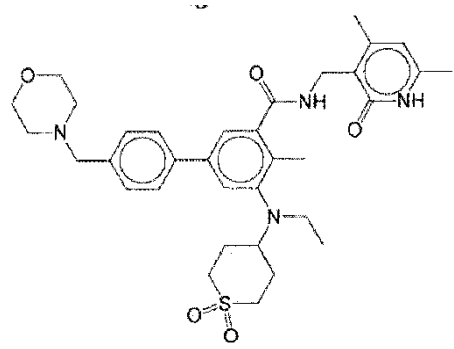
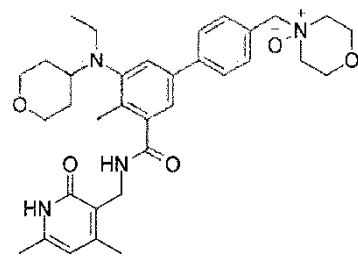
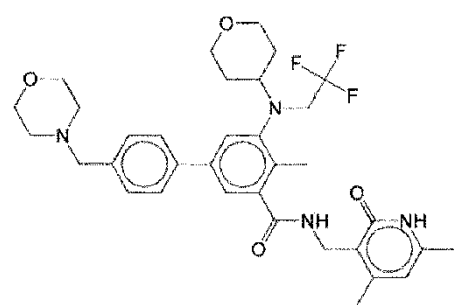
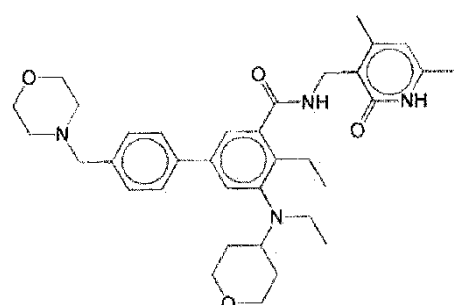
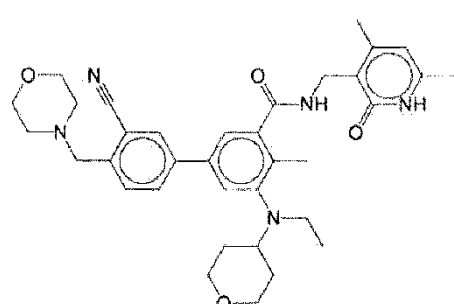
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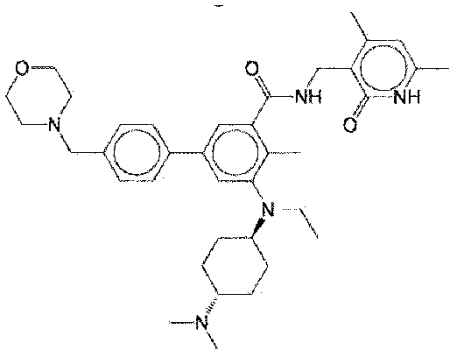
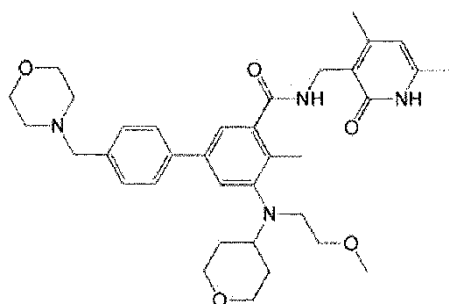
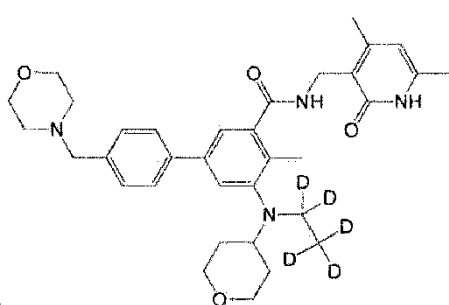
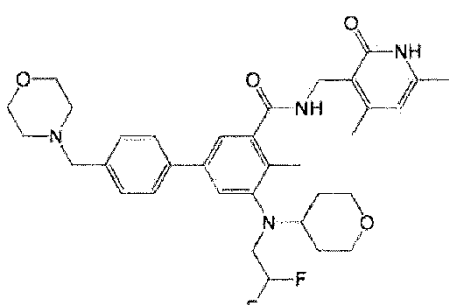
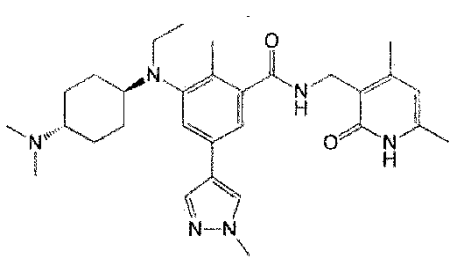
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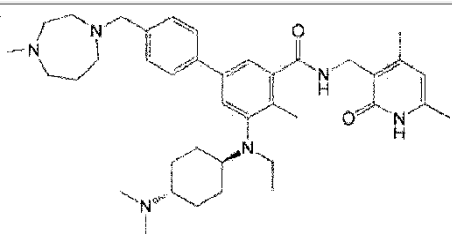
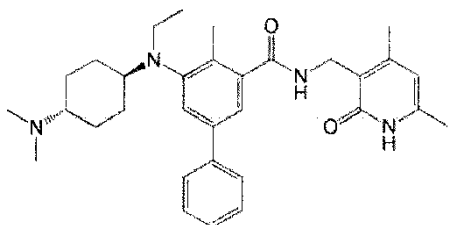
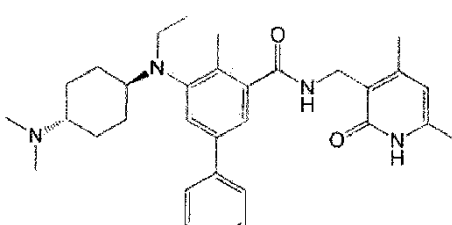
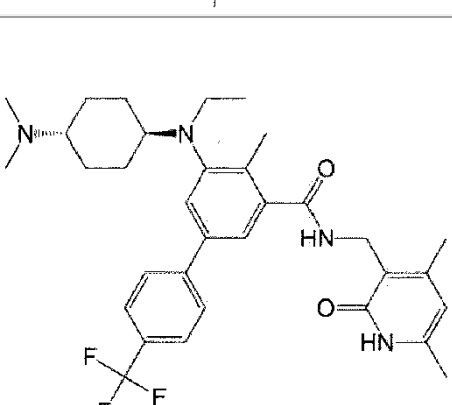
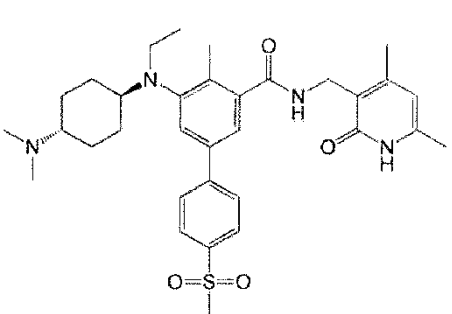
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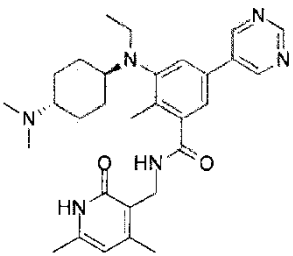
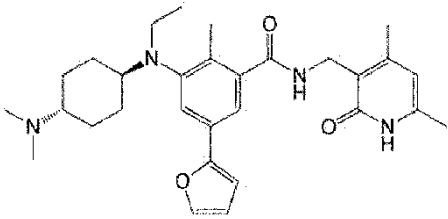
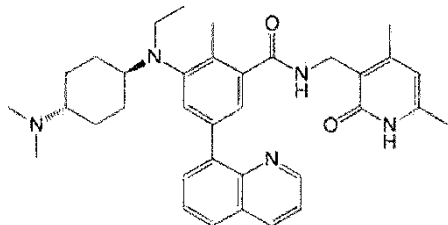
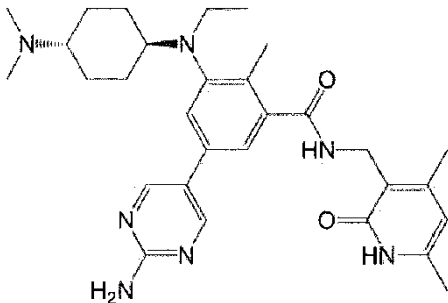
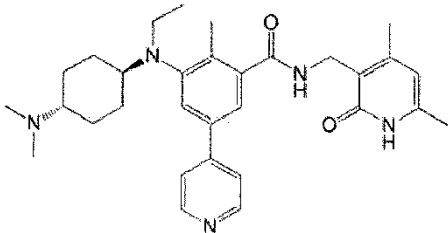
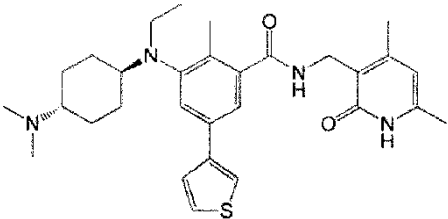
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Forbindelse nummer	Struktur
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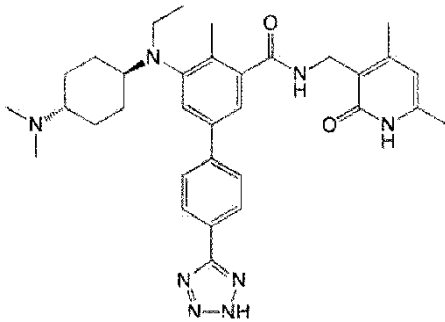
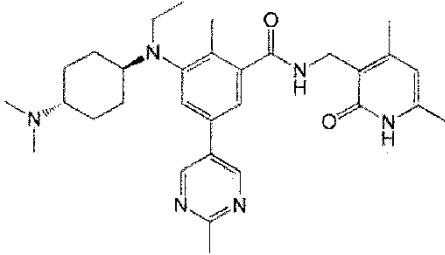
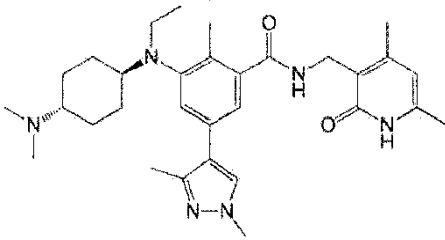
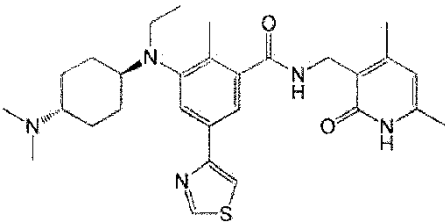
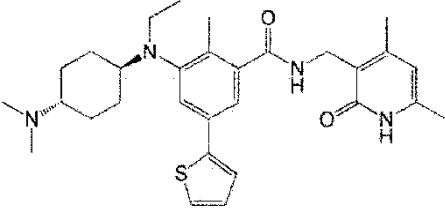
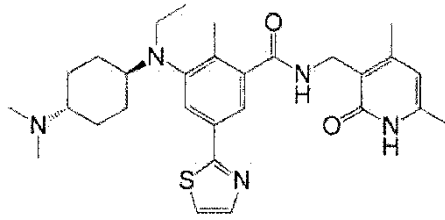
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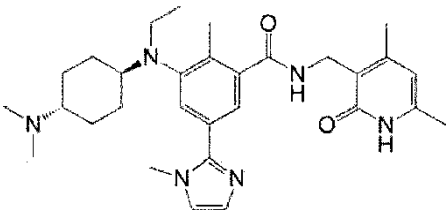
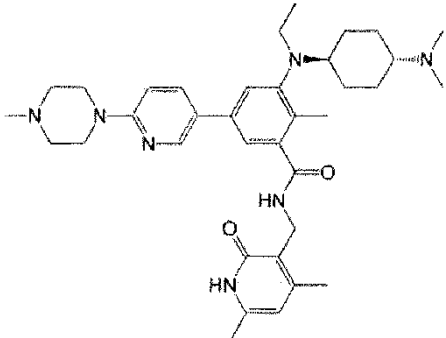
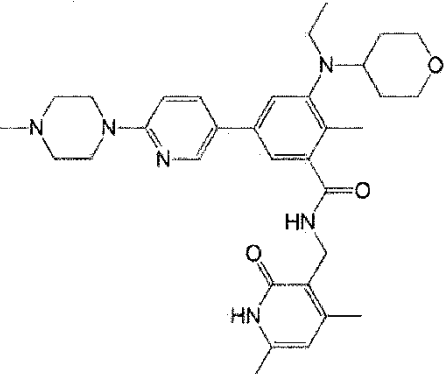
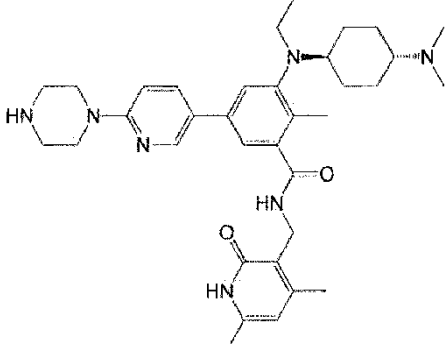
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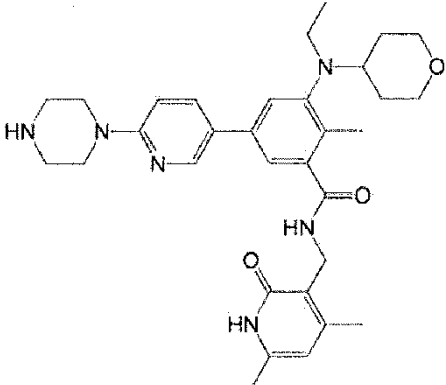
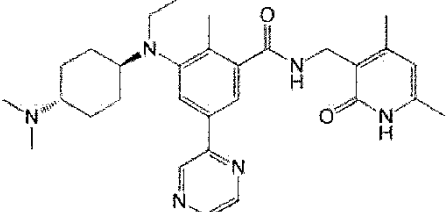
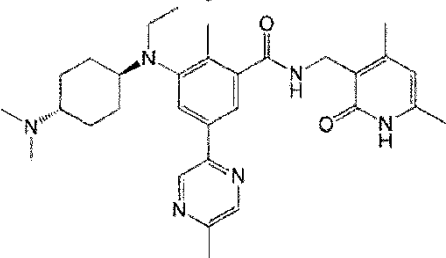
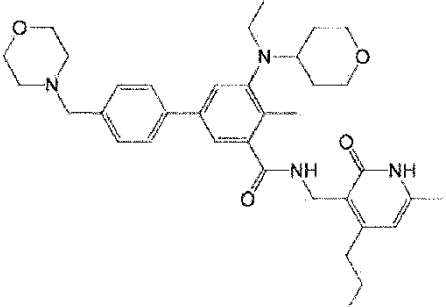
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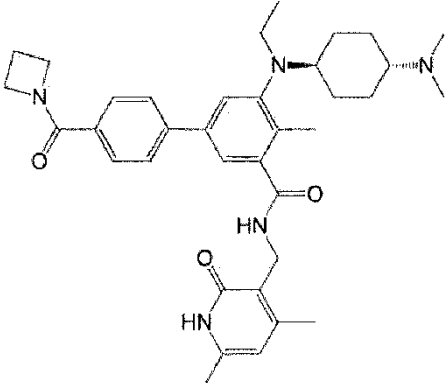
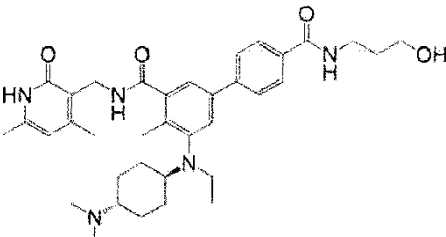
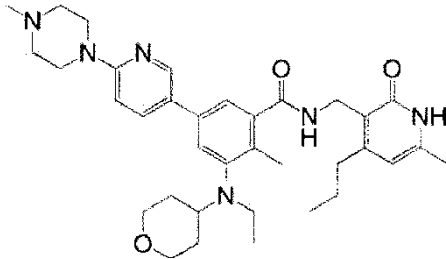
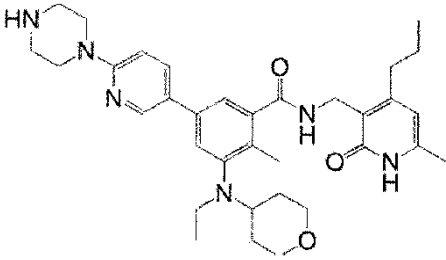
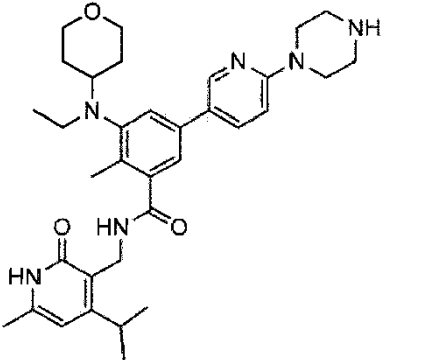
Forbindelse nummer	Struktur
158	 <chem>CN(C)[C@H]1CCCC[C@@H]1CN(C)C2=CC=C(C=C2C3=CC=CC=N3)C(=O)NCC4=C(C)NC(=O)C=C4C5=CC=CC=N5</chem>
159	 <chem>CN(C)[C@H]1CCCC[C@@H]1CN(C)C2=CC=C(C=C2C3=CC=CC=N3)C(=O)NCC4=C(C)NC(=O)C=C4C5=CC=CC=N5</chem>
160	 <chem>CN(C)[C@H]1CCCC[C@@H]1CN(C)C2=CC=C(C=C2C3=CC=CC=N3)C(=O)NCC4=C(C)NC(=O)C=C4C5=CC=CC=N5</chem>
161	 <chem>CN(C)[C@H]1CCCC[C@@H]1CN(C)C2=CC=C(C=C2C3=CC=CC=N3)C(=O)NCC4=C(C)NC(=O)C=C4C5=CC=CC=N5</chem>
162	 <chem>CN(C)[C@H]1CCCC[C@@H]1CN(C)C2=CC=C(C=C2C3=CC=CC=N3)C(=O)NCC4=C(C)NC(=O)C=C4C5=CC=CC=N5</chem>

Forbindelse nummer	Struktur
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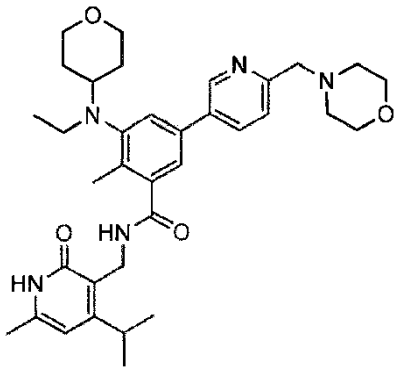
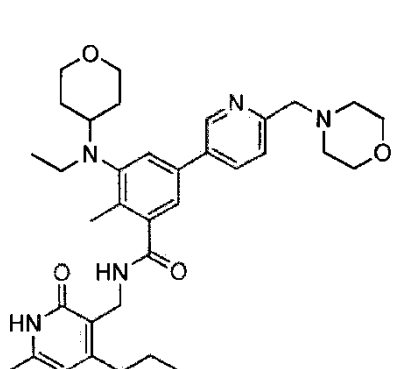
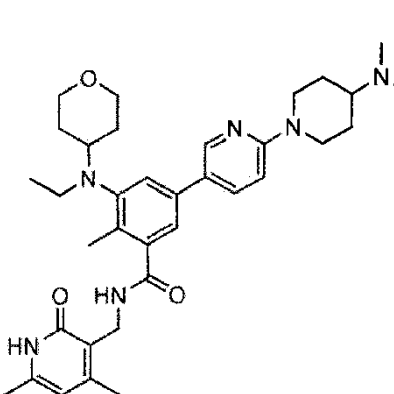
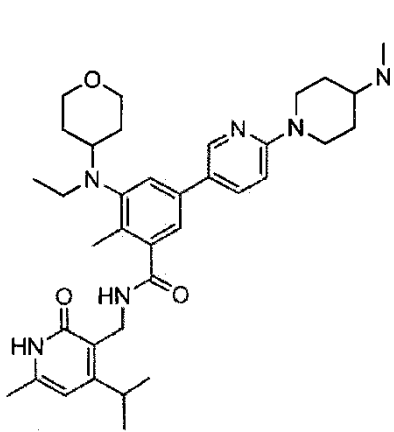
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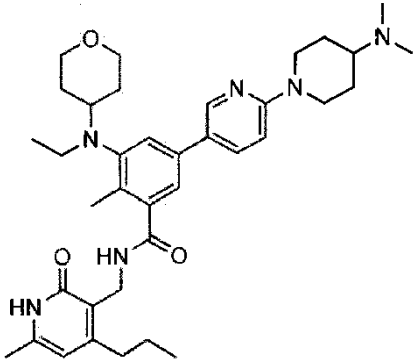
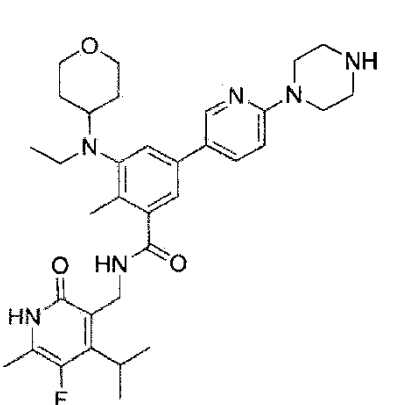
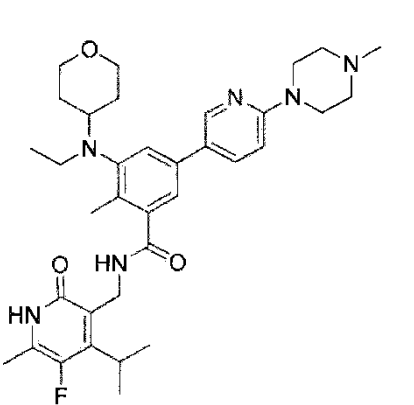
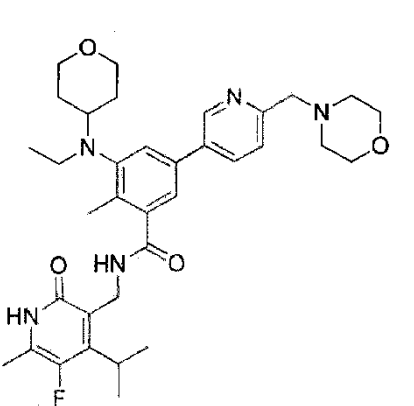
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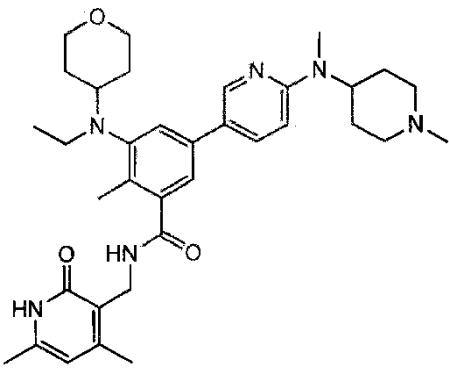
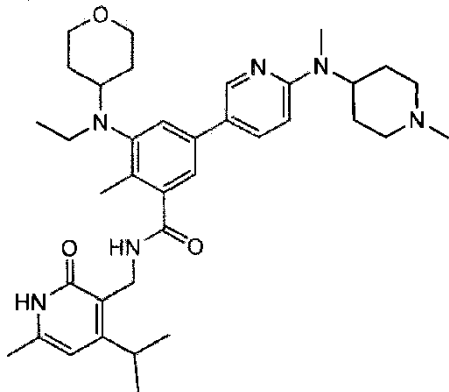
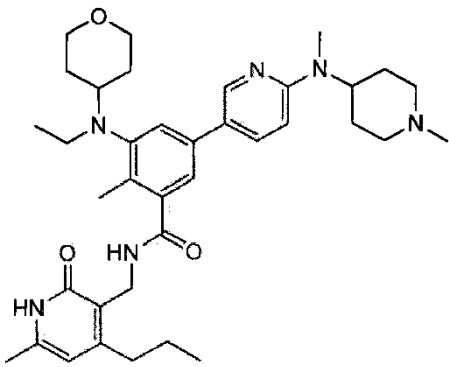
Forbindelse nummer	Struktur
177	 <chem>CCN(CC1CCOCC1)c2cc(C)c(CNCC(=O)c3c(C)c(Br)c(C)c(=O)[nH]3)c2-c4ccc(CN5CCOCC5)cc4</chem>
178	 <chem>CCN(CC1CCOCC1)c2cc(C)c(CNCC(=O)c3c(C)c(C)c(=O)[nH]3)c2-c4ccc(CN5CCOCC5)cc4Cl</chem>
179	 <chem>CCN(CC1CCOCC1)c2cc(C)c(CNCC(=O)c3c(C)c(F)c(C)c(=O)[nH]3)c2-c4ccc(CN5CCOCC5)cc4</chem>
180	 <chem>CCN(CC1CCOCC1)c2cc(C)c(CNCC(=O)c3c(C)c(C)c(=O)[nH]3)c2-c4ccc(CN5CCOCC5)cc4</chem>

Forbindelse nummer	Struktur
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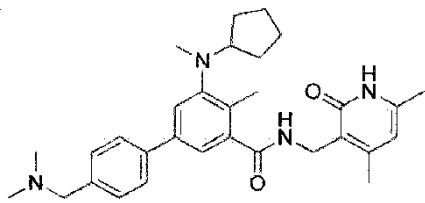
Forbindelse nummer	Struktur
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Forbindelse nummer	Struktur
190	 <chem>CCN(CC1CCOCC1)c2cc(ccc2NCC3C(=O)NC(=O)C4=C(C)C(=O)NC(=O)C4)C(=O)NC5C(=O)NC(=O)C5C</chem>
191	 <chem>CCN(CC1CCOCC1)c2cc(ccc2NCC3C(=O)NC(=O)C4=C(C)C(=O)NC(=O)C4)C(=O)NC5C(=O)NC(=O)C5C</chem>
192	 <chem>CCN(CC1CCOCC1)c2cc(ccc2NCC3C(=O)NC(=O)C4=C(C)C(=O)NC(=O)C4)C(=O)NC5C(=O)NC(=O)C5C</chem>
193	 <chem>CCN(CC1CCOCC1)c2cc(ccc2NCC3C(=O)NC(=O)C4=C(C)C(=O)NC(=O)C4)C(=O)NC5C(=O)NC(=O)C5C</chem>

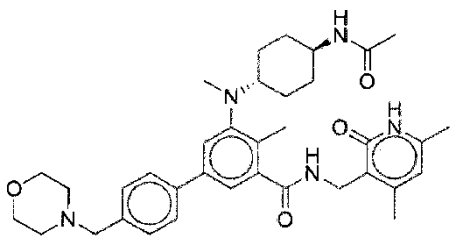
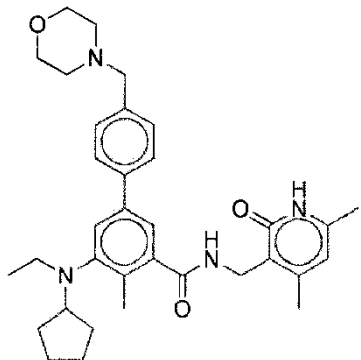
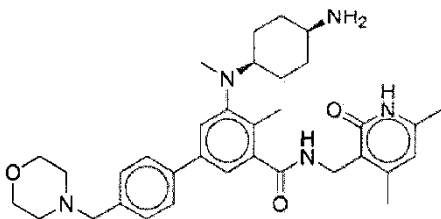
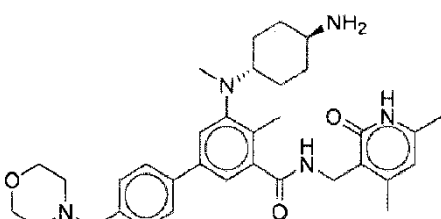
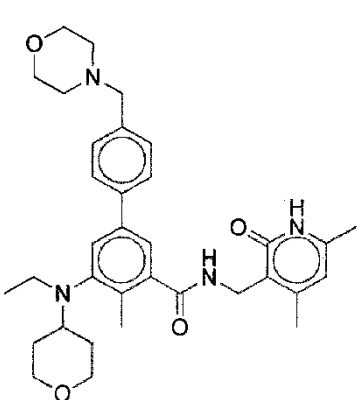
Forbindelse nummer	Struktur
194	 <chem>CCN(C)CCN1CCN(C1)c2ccc(cc2)c3cc(C)c(N(CC)C4OCCO4)c(C3)c5c(C)c(C)nc(=O)[nH]5</chem>
195	 <chem>CCN1CCN(C1)c2ccc(cc2)c3cc(C)c(N(CC)C4OCCO4)c(C3)c5c(C)c(F)nc(=O)[nH]5</chem>
196	 <chem>CCN(C)CCN1CCN(C1)c2ccc(cc2)c3cc(C)c(N(CC)C4OCCO4)c(C3)c5c(C)c(F)nc(=O)[nH]5</chem>
197	 <chem>CCN1CCN(C1)c2ccc(cc2)c3cc(C)c(N(CC)C4OCCO4)c(C3)c5c(C)c(F)nc(=O)[nH]5</chem>

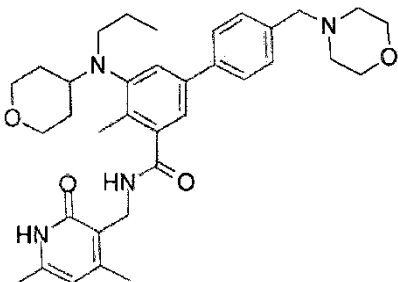
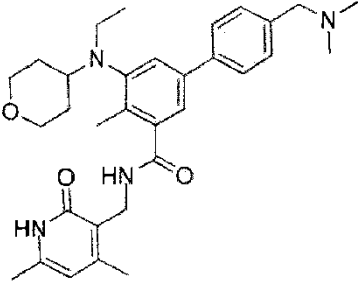
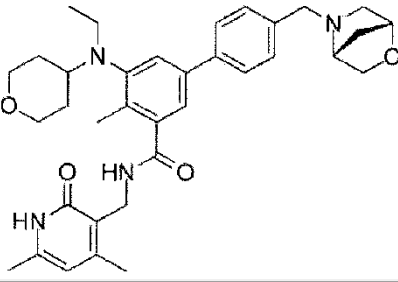
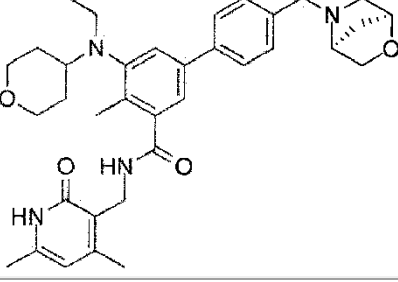
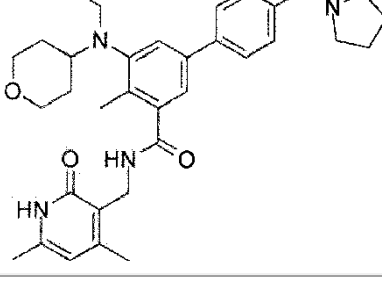
Forbindelse nummer	Struktur
198	
199	
200	

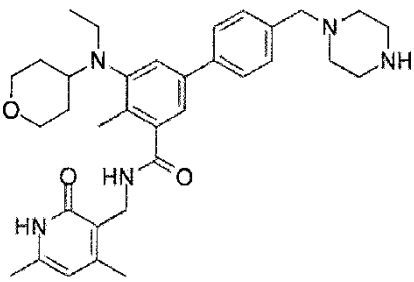
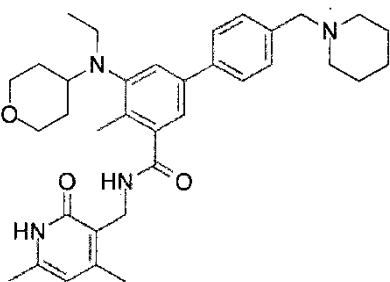
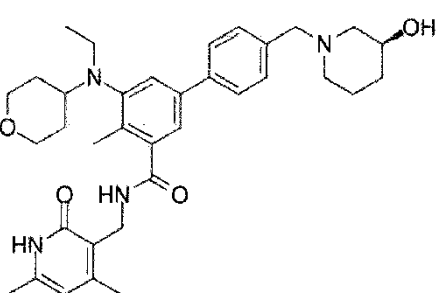
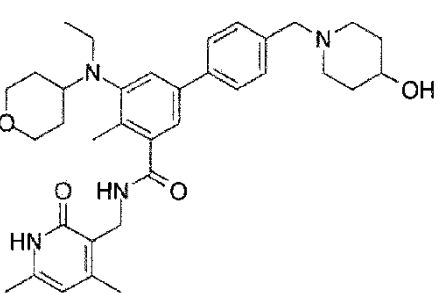
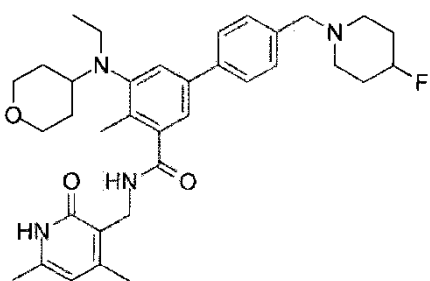
og deres farmasøytisk akseptable salter derav, fortrinnsvis er forbindelsen valgt fra

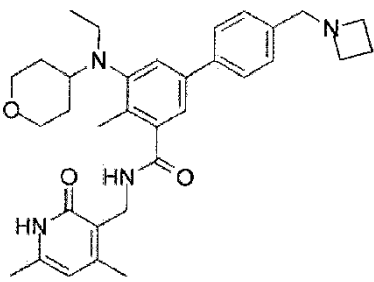
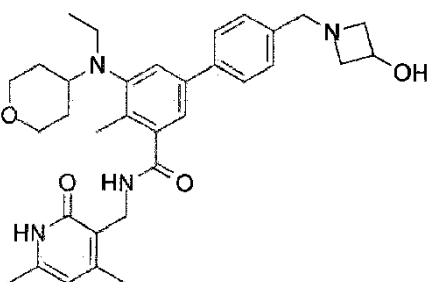
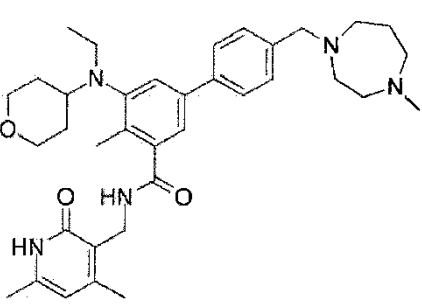
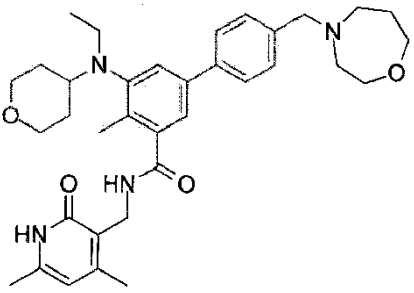
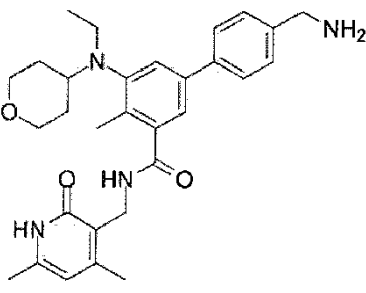
Forbindelse nummer	Struktur
1	

Forbindelse nummer	Struktur
2	
11	
12	
13	
17	
20	

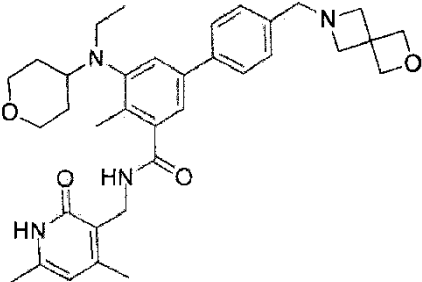
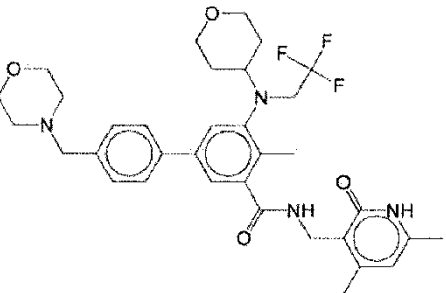
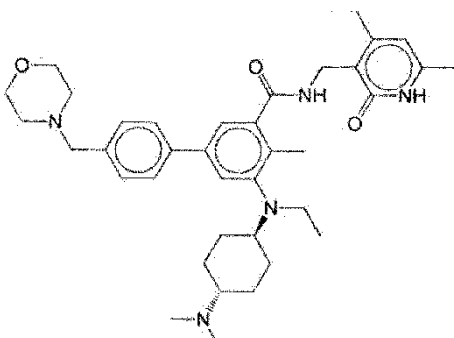
Forbindelse nummer	Struktur
21	
36	
42	
43	
44	

Forbindelse nummer	Struktur
59	
65	
67	
68	
69	

Forbindelse nummer	Struktur
73	
75	
76	
78	
80	

Forbindelse nummer	Struktur
82	 <chem>CCN(CC1CCOCC1)c2cc(ccc2C(=O)NCc3c(C)c(C)c(=O)[nH]3)C4=CC=C(C=C4)CN5CC5</chem>
83	 <chem>CCN(CC1CCOCC1)c2cc(ccc2C(=O)NCc3c(C)c(C)c(=O)[nH]3)C4=CC=C(C=C4)CN5CC(O)5</chem>
87	 <chem>CCN(CC1CCOCC1)c2cc(ccc2C(=O)NCc3c(C)c(C)c(=O)[nH]3)C4=CC=C(C=C4)CN5CCNCC5</chem>
88	 <chem>CCN(CC1CCOCC1)c2cc(ccc2C(=O)NCc3c(C)c(C)c(=O)[nH]3)C4=CC=C(C=C4)CN5CCOCC5</chem>
89	 <chem>CCN(CC1CCOCC1)c2cc(ccc2C(=O)NCc3c(C)c(C)c(=O)[nH]3)C4=CC=C(C=C4)CN</chem>

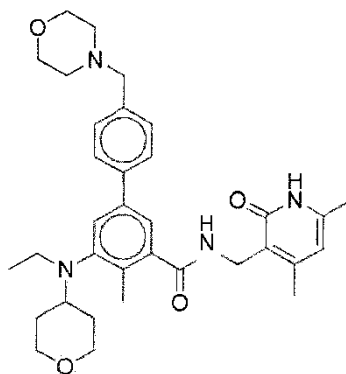
Forbindelse nummer	Struktur
90	<chem>CC1=C(C)NC(=O)C(C)=C1C(=O)NCC(=O)c2cc(C)c(N3CCOCC3)c(C)c2C4=CC=C(CN(C)C)CC4</chem>
91	<chem>CC1=C(C)NC(=O)C(C)=C1C(=O)NCC(=O)c2cc(C)c(N3CCOCC3)c(C)c2C4=CC=C(CN(CC)CC)CC4</chem>
94	<chem>CC1=C(C)NC(=O)C(C)=C1C(=O)NCC(=O)c2cc(C)c(N3CCOCC3)c(C)c2C4=CC=C(CN(CC)CC)CC4</chem>
97	<chem>CC1=C(C)NC(=O)C(C)=C1C(=O)NCC(=O)c2cc(C)c(N3CCOCC3)c(C)c2C4=CC=C(CN(C1CC1)CC)CC4</chem>
103	<chem>CC1=C(C)NC(=O)C(C)=C1C(=O)NCC(=O)c2cc(C)c(N3CCOCC3)c(C)c2C4=CC=C(CN(CF)CC)CC4</chem>

Forbindelse nummer	Struktur
105	
138	
141	

og deres farmasøytisk akseptable salter derav.

14. Forbindelse ifølge krav 1, hvor forbindelsen er

5



eller et farmasøytisk akseptabelt salt derav.

15. En farmasøytisk sammensetning omfattende en forbindelse ifølge hvilket som helst av kravene 1-14, eller et farmasøytisk akseptabelt salt derav og en farmasøytisk akseptabel bærer.

- 5 **16.** Forbindelse ifølge hvilket som helst av kravene 1-14, for anvendelse i en fremgangsmåte for behandling eller forebygging av kreft.