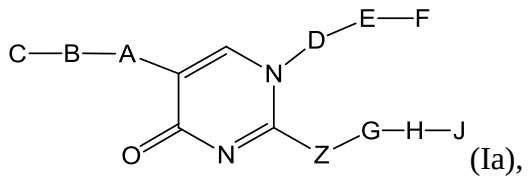
CLAIMS

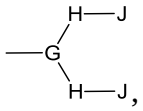
1. A compound having the formula:



(Ia),

wherein Z is selected from the group consisting of $S(O)_n$ and NR^4CONR^4, in which R^4 is hydrogen or $C_{1–8}$ alkyl, and n is 0, 1, or 2;

wherein –G–H–J, alternatively, is



,

wherein each H and J are independently selected,

C–B–A–, –D–E–F, and –G–H–J are chemical moieties, wherein

A is selected from the group consisting of:

(b) $–(C_{1–8}$ alkyl)– , (c) $–(C_{2–8}$ alkenyl)–, (d) $–(C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (b)–(d) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, $–S(O)_p–$, $–NR^6–$, $–S(O)_pNR^6–$, $–NR^6S(O)_p–$, and $–NR^6S(O)_pNR^6–$,

ii) any of (b)–(d) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (b)–(d) immediately above optionally is substituted with $–(C_{1–8}$ alkyl)$–R^5$ groups;

(e) –O–, (f) $–NR^6–$, (g) $–S(O)_p–$, (h) –C(O)–, (i) –C(O)O–, (j) –OC(O)–, k) –OC(O)O–, (m) $–NR^6CO–$, (n) $–NR^6C(O)NR^6–$, (o) $–C(=NR^6)–$, (p) $–C(=NR^6)O–$, (q) $–OC(=NR^6)–$, (r) $–C(=NR^6)NR^6–$, (s) $–NR^6C(=NR^6)–$, (t) –C(=S)–, (u) $–C(=S)NR^6–$, (v) $–NR^6C(=S)–$, (w) –C(O)S–, (x) –SC(O)–, (y) –OC(=S)–, (z) –C(=S)O–, (aa) $–NR^6(CNR^6)NR^6–$, (bb) –

$CR^6R^6C(O)$–, (cc) $–C(O)NR^6(CR^6R^6)_t$–, (dd) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen and sulfur,

(ee) a 3–14 member saturated, unsaturated, or aromatic carbocycle, and

(ff) $–(CR^6R^6)_t$–,

wherein (dd) or (ee) is optionally substituted with one or more R^5 groups;

D and G are independently selected from the group consisting of:

(a) a single bond, (b) $–(C_{1–8}$ alkyl)– , (c) $–(C_{2–8}$ alkenyl)–, (d) $–(C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (b)–(d) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, $–S(O)_p$–, $–NR^6$–, –(C=O)–, $–S(O)_pNR^6$–, $–NR^6S(O)_p$–, and $–NR^6S(O)_pNR^6$–,

ii) any of (b)–(d) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (b)–(d) immediately above optionally is substituted with $–(C_{1–8}$ alkyl)–R^5 groups;

(e) –O–, (f) $–NR^6$–, (g) $–S(O)_p$–, (h) –C(O)–, (i) –C(O)O–, (j) –OC(O)–, k) –OC(O)O–, (l) $–C(O)NR^6$–, (m) $–NR^6CO$–, (n) $–NR^6C(O)NR^6$–, (o) $–C(=NR^6)$–, (p) $–C(=NR^6)O$–, (q) $–OC(=NR^6)$–, (r) $–C(=NR^6)NR^6$–, (s) $–NR^6C(=NR^6)$–, (t) –C(=S)–, (u) $–C(=S)NR^6$–, (v) $–NR^6C(=S)$–, (w) –C(O)S–, (x) –SC(O)–, (y) –OC(=S)–, (z) –C(=S)O–, (aa) $–NR^6(CNR^6)NR^6$–, (bb) $–CR^6R^6C(O)$–, (cc) $–C(O)NR^6(CR^6R^6)_t$–, (dd) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(ee) a 3–14 member saturated, unsaturated, or aromatic carbocycle, and

(ff) $–(CR^6R^6)_t$–,

wherein (dd) or (ee) is optionally substituted with one or more R^5 groups;

B is selected from the group consisting of:

(b) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(c) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (b) or (c) is optionally substituted with one or more R^5 groups;

(d) $–(C_{2–8}$ alkyl)–, (e) $–(C_{2–8}$ alkenyl)–, (f) $–(C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (d)–(f) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, $–S(O)_p–$, $–NR^6–$, $–C(=NR^6)–$, $–S(O)_pNR^6–$, $–NR^6S(O)_p–$, and $–NR^6S(O)_pNR^6–$,

ii) any of (d)–(f) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (d)–(f) immediately above optionally is substituted with $–(C_{1–8}$ alkyl$)–R^5$ groups;

and (g) $–(CR^6R^6)_t–$,

E and H are independently selected from the group consisting of:

(a) a single bond,

(b) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(c) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (b) or (c) is optionally substituted with one or more R^5 groups;

(d) $–(C_{1–8}$ alkyl$)–$, (e) $–(C_{2–8}$ alkenyl$)–$, (f) $–(C_{2–8}$ alkynyl$)–$, wherein

i) 0–4 carbon atoms in any of (d)–(f) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, $–S(O)_p–$, $–NR^6–$, $–(C=O)–$, $–C(=NR^6)–$, $–S(O)_pNR^6–$, $–NR^6S(O)_p–$, and $–NR^6S(O)_pNR^6–$,

ii) any of (d)–(f) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (d)–(f) immediately above optionally is substituted with $–(C_{1–8}$ alkyl$)–R^5$ groups;

and (g) $–(CR^6R^6)_t–$,

C, F, and J are independently selected from the group consisting of:

(a) hydrogen, (c) F, (d) Cl, (e) Br, (f) I, (g) $–CF_3$, (h) –CN, (i) $–N_3$ (j) $–NO_2$, (k) $–NR^6(CR^6R^6)_tR^8$, (l) $–OR^8$, (m) $–S(O)_p(CR^6R^6)_tR^8$, (n) $–C(O)(CR^6R^6)_tR^8$, (o) $–OC(O)(CR^6R^6)_tR^8$, (p) $–SC(O)(CR^6R^6)_tR^8$, (q) $–C(O)O(CR^6R^6)_tR^8$, (r) $–NR^6C(O)(CR^6R^6)_tR^8$, (s) $–C(O)NR^6(CR^6R^6)_tR^8$, (t) $–C(=NR^6)(CR^6R^6)_tR^8$, (u) $–C(=NNR^6R^6)(CR^6R^6)_tR^8$, (v) $–C(=NNR^6C(O)R^6)(CR^6R^6)_tR^8$, (w) $–C(=NOR^8)(CR^6R^6)_tR^8$, (x) $–NR^6C(O)O(CR^6R^6)_tR^8$, (y) $–OC(O)NR^6(CR^6R^6)_tR^8$, (z) $–NR^6C(O)NR^6(CR^6R^6)_tR^8$,

(aa) $–NR^6S(O)_p(CR^6R^6)_tR^8$, (bb) $–S(O)_pNR^6(CR^6R^6)_tR^8$, (cc) $–NR^6S(O)_pNR^6(CR^6R^6)_tR^8$, (dd) $–NR^6R^8$, (ee) $–NR^6(CR^6R^6)R^8$, (ff) –OH, (gg) $–NR^8R^8$, (hh) $–OCH_3$, (ii) $–S(O)_pR^8$, (jj) $–NC(O)R^8$, (kk) $–NR^6C(NR^6)NR^6R^8$, (ll) $C_{1–8}$ alkyl, (mm) $C_{2–8}$ alkenyl, (nn) $C_{2–8}$ alkynyl, (oo) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (pp) a 3–14 member saturated, unsaturated, or aromatic carbocycle, (qq) $–(CR^6R^6)_tNR^6(CR^6R^6)_tR^8$, (rr) $–N[(CR^6R^6)_tR^8][C=O(CR^6R^6)_tR^8]$, (ss) $–(CR^6R^6)_tN[(CR^6R^6)_tR^8][(CR^6R^6)_tR^8]$, (tt) $–(CR^6R^6)_tNR^6(C=O)(CR^6R^6)_tR^8$, (uu) –haloalkyl, (vv) $–C(O)(CR^6)[(CR^6R^6)_tR^8]R^8$, (ww) $–(CR^6R^6)_tC(O)NR^8R^8$, (xx) $–(CR^6R^6)_tC(O)O(CR^6R^6)_tR^8$, (yy) $–NR^6C(O)CR^8R^8R^8$, (zz) $–N[(CR^6R^6)_tR^8]C(O)R^8$, and (aaa) $–S(O)_pNR^8R^8$;

wherein (ll) through (pp) is optionally substituted with one or more R^7 groups;

R^5 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^6$, (k) $–OR^8$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C_{1–8}$ alkyl, (n) $–C_{2–8}$ alkenyl, (o) $–C_{2–8}$ alkynyl, (p) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –haloalkyl, (s) $–SR^6$, (t) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (u) –3–14 member saturated, unsaturated, or aromatic carbocycle; alternatively, two R^5 groups are taken together to form a carbocycle,

wherein (m) through (r) and (t) through (u) is optionally substituted with one or more R^8;

R^6 is selected from (a) hydrogen, (b) $–C_{1–8}$ alkyl or alternatively two R^6 groups are taken together to form a carbocycle, (c) –haloalkyl, (d) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (e) –3–14 member saturated, unsaturated, or aromatic carbocycle;

wherein (b) through (e) is optionally substituted with one or more R^8;

R^7 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^6$, (k) $–OR^6$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C_{1–8}$ alkyl, (n) $–C_{2–8}$ alkenyl, (o) $–C_{2–8}$ alkynyl, (p) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –haloalkyl, (s) $–NR^6R^8$, (t) $–OR^8$, (u) $–(CR^6R^6)_tNR^6R^8$, (v) $–CR^6R^8R^8$, (w) $–SR^6$, (x) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (y) –3–14 member saturated, unsaturated, or aromatic carbocycle, (z) $–(CR^6R^6)_tC(O)NR^8R^8$, (aa) $–S(O)_pR^8$, (bb) $–NR^6C(O)NR^6R^6$, (cc) $–NR^6C(O)R^6$, and (dd) $–C(=NR^6)NR^6R^6$;

wherein (m) through (q) and (x) through (y) are optionally substituted with one or more $R^{9;}$

R^8 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^9$, (k) $–OR^9$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C_{1–8}$ alkyl, (n) $–C_{2–8}$ alkenyl, (o) $–C_{2–8}$ alkynyl, (p) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (s) –3–14 member saturated, unsaturated, or aromatic carbocycle, (t) –haloalkyl, (u) $–C(O)(CR^6R^6)_tR^9$, (v) $–SR^6$, (w) $–OC(O)(CR^6R^6)_tR^9$, (x) $–NR^6C(O)NR^6R^9$, (y)–$NR^6C(O)R^9$, (z) $–NR^6(CNR^9)(NR^6R^6)$, (aa) $–ONR^6(CNR^6)NR^6R^6$, (bb) $–C(=NR^9)NR^6R^6$, (cc) $–S(O)_pR^9$, (dd) $–(CR^6R^6)_tC(O)NR^6R^9$, (ee) $–(CR^6R^6)_tOR^9$, and (ff) $–(CR^6R^6)_tNR^6R^9$;

wherein (m) through (s) is optionally substituted with one or more R^9;

R^9 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^{10}$, (k) $–OR^6$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C(O)(CR^6R^6)_tNR^6R^6$, (n) $–C_{1–8}$ alkyl, (o) $–C_{2–8}$ alkenyl, (p) $–C_{2–8}$ alkynyl, (q) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen,

oxygen, and sulfur, (r) –3–14 member saturated, unsaturated, or aromatic carbocycle, (s) –haloalkyl, (t) $–(CR^6R^6)_tOR^6$, (u) $–O(CR^6R^6)_tNR^6R^{10}$, (v) $–C(O)R^6$, (w) $–SR^6$, (x) $–C(O)OR^{10}$, (y) $–S(O)_pR^6$, (z) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (aa) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (bb) $–O(CR^6R^6)_tOR^6$, (cc) $–C(=NR^6)NR^6R^6$, (dd) $–ONR^6R^6$, (ee) $–NR^6C(O)NR^6R^6$, (ff) $–O(CR^6R^6)_tOR^6$, (gg) $–NR^6C(O)R^6$, and (hh) $–(CR^6R^6)_tNR^6R^{10}$;

wherein (n) through (r) and (z) through (aa) is optionally substituted with one or more R^{10};

R^{10} is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^6$, (k) $–OR^6$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C(O)(CR^6R^6)_tNR^6R^6$, (n) $–C_{1–8}$ alkyl, (o) $–C_{2–8}$ alkenyl, (p) $–C_{2–8}$ alkynyl, (q) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (r) –3–14 member saturated, unsaturated, or aromatic carbocycle, (s) –haloalkyl, (t) $–(CR^6R^6)_tOR^6$, (u) $–O(CR^6R^6)_tNR^6R^6$, (v) $–C(O)R^6$, (w) $–SR^6$, (x) $–C(O)OR^6$, (y) $–S(O)_pR^6$, (z) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (aa) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (bb) $–O(CR^6R^6)_tOR^6$, (cc) $–C(=NR^6)NR^6R^6$, (dd) $–ONR^6R^6$, (ee) $–NR^6C(O)NR^6R^6$, (ff) $–O(CR^6R^6)_tOR^6$, (gg) $–NR^6C(O)R^6$, and (hh) $–(CR^6R^6)_tNR^6R^6$;

optionally, wherein either –D–E–F or –G–H–J is hydrogen;

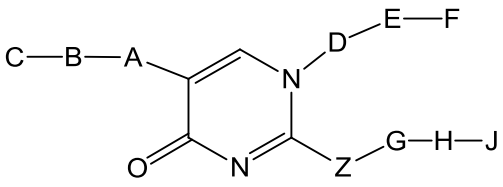
p is 0, 1, or 2, and

t is 1, 2, or 3,

or a pharmaceutically acceptable salt or tautomer thereof.

2. The compound according to Claim 1, wherein Z is $–NR^4CONR^4–$; or a pharmaceutically acceptable salt or tautomer thereof.

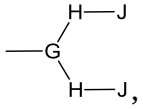
3. A compound having the formula:



(Ia),

wherein Z is $–NR^4CONR^4–$, in which R^4 is hydrogen or $C_{1–8}$ alkyl, and n is 0, 1, or 2;

wherein –G–H–J, alternatively, is



,

wherein each H and J are independently selected,

C–B–A–, –D–E–F, and –G–H–J are chemical moieties, wherein

A is selected from the group consisting of:

(b) $–(C_{1–8}$ alkyl)– , (c) $–(C_{2–8}$ alkenyl)–, (d) $–(C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (b)–(d) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, $–S(O)_p–$, $–NR^6–$, $–S(O)_pNR^6–$, $–NR^6S(O)_p–$, and $–NR^6S(O)_pNR^6–$,

ii) any of (b)–(d) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (b)–(d) immediately above optionally is substituted with $–(C_{1–8}$ alkyl)$–R^5$ groups;

(e) –O–, (f) $–NR^6–$, (g) $–S(O)_p–$, (h) –C(O)–, (i) –C(O)O–, (j) –OC(O)–, k) –OC(O)O–, (m) $–NR^6CO–$, (n) $–NR^6C(O)NR^6–$, (o) $–C(=NR^6)–$, (p) $–C(=NR^6)O–$, (q) $–OC(=NR^6)–$, (r) $–C(=NR^6)NR^6–$, (s) $–NR^6C(=NR^6)–$, (t) –C(=S)–, (u) $–C(=S)NR^6–$, (v) $–NR^6C(=S)–$, (w) –C(O)S–, (x) –SC(O)–, (y) –OC(=S)–, (z) –C(=S)O–, (aa) $–NR^6(CNR^6)NR^6–$, (bb) $–CR^6R^6C(O)–$, (cc) $–C(O)NR^6(CR^6R^6)_t–$, (dd) a 6, 7, 8, 9,10, 11, or 12 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(ee) a 3–14 member saturated, unsaturated, or aromatic carbocycle, and

(ff) $–(CR^6R^6)_t–$,

wherein (dd) or (ee) is optionally substituted with one or more R^5 groups;

D and G are independently selected from the group consisting of:

(a) a single bond, (b) –($C_{1–8}$ alkyl)– , (c) –($C_{2–8}$ alkenyl)–, (d) –($C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (b)–(d) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –(C=O)–, –$S(O)_pNR^6$–, –$NR^6S(O)_p$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (b)–(d) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (b)–(d) immediately above optionally is substituted with –($C_{1–8}$ alkyl)–R^5 groups;

(e) –O–, (f) –NR^6–, (g) –$S(O)_p$–, (h) –C(O)–, (i) –C(O)O–, (j) –OC(O)–, k) –OC(O)O–, (l) –C(O)NR^6–, (m) –NR^6CO–, (n) –NR^6C(O)NR^6–, (o) –C(=NR^6)–, (p) –C(=NR^6)O–, (q) –OC(=NR^6)–, (r) –C(=NR^6)NR^6–, (s) –NR^6C(=NR^6)–, (t) –C(=S)–, (u) –C(=S)NR^6–, (v) –NR^6C(=S)–, (w) –C(O)S–, (x) –SC(O)–, (y) –OC(=S)–, (z) –C(=S)O–, (aa) –NR^6(CNR^6)NR^6–, (bb) –CR^6R^6C(O)–, (cc) –C(O)NR^6(CR^6R^6)$_t$–, (dd) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(ee) a 3–14 member saturated, unsaturated, or aromatic carbocycle, and

(ff) –(CR^6R^6)$_t$–,

wherein (dd) or (ee) is optionally substituted with one or more R^5 groups;

B is selected from the group consisting of:

(b) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(c) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (b) or (c) is optionally substituted with one or more R^5 groups;

(d) –($C_{2–8}$ alkyl)–, (e) –($C_{2–8}$ alkenyl)–, (f) –($C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (d)–(f) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –C(=NR^6)–, –$S(O)_pNR^6$–, –$NR^6S(O)_p$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (d)–(f) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (d)–(f) immediately above optionally is substituted with –(C_{1-8} alkyl)–R^5 groups;

and (g) –$(CR^6R^6)_t$–,

E and H are independently selected from the group consisting of:

(a) a single bond,

(b) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(c) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (b) or (c) is optionally substituted with one or more R^5 groups;

(d) –(C_{1-8} alkyl)–, (e) –(C_{2-8} alkenyl)–, (f) –(C_{2-8} alkynyl)–, wherein

i) 0–4 carbon atoms in any of (d)–(f) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –(C=O)–, –$C(=NR^6)$–, –$S(O)_pNR^6$–, –$NR^6S(O)_p$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (d)–(f) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (d)–(f) immediately above optionally is substituted with –(C_{1-8} alkyl)–R^5 groups;

and (g) –$(CR^6R^6)_t$–,

C, F, and J are independently selected from the group consisting of:

(a) hydrogen, (c) F, (d) Cl, (e) Br, (f) I, (g) $–CF_3$, (h) –CN, (i) $–N_3$ (j) $–NO_2$, (k) –$NR^6(CR^6R^6)_tR^8$, (l) –OR^8, (m) –$S(O)_p(CR^6R^6)_tR^8$, (n) –$C(O)(CR^6R^6)_tR^8$, (o) –$OC(O)(CR^6R^6)_tR^8$, (p) –$SC(O)(CR^6R^6)_tR^8$, (q) –$C(O)O(CR^6R^6)_tR^8$, (r) –$NR^6C(O)(CR^6R^6)_tR^8$, (s) –$C(O)NR^6(CR^6R^6)_tR^8$, (t) –$C(=NR^6)(CR^6R^6)_tR^8$, (u) –$C(=NNR^6R^6)(CR^6R^6)_tR^8$, (v) –$C(=NNR^6C(O)R^6)(CR^6R^6)_tR^8$, (w) –$C(=NOR^8)(CR^6R^6)_tR^8$, (x) –$NR^6C(O)O(CR^6R^6)_tR^8$, (y) –$OC(O)NR^6(CR^6R^6)_tR^8$, (z) –$NR^6C(O)NR^6(CR^6R^6)_tR^8$, (aa) –$NR^6S(O)_p(CR^6R^6)_tR^8$, (bb) –$S(O)_pNR^6(CR^6R^6)_tR^8$, (cc) –$NR^6S(O)_pNR^6(CR^6R^6)_tR^8$, (dd) –$NR^6R^8$, (ee) –$NR^6(CR^6R^6)R^8$, (ff) –OH, (gg) –$NR^8R^8$, (hh) $–OCH_3$, (ii) –$S(O)_pR^8$, (jj) –$NC(O)R^8$, (kk) –$NR^6C(NR^6)NR^6R^8$, (ll) C_{1-8} alkyl, (mm) C_{2-8} alkenyl, (nn) C_{2-8} alkynyl, (oo) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing

one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (pp) a 3–14 member saturated, unsaturated, or aromatic carbocycle, (qq) –$(CR^6R^6)_tNR^6(CR^6R^6)_tR^8$, (rr) –$N[(CR^6R^6)_tR^8][C{=}O(CR^6R^6)_tR^8]$, (ss) –$(CR^6R^6)_tN[(CR^6R^6)_tR^8][(CR^6R^6)_tR^8]$, (tt) –$(CR^6R^6)_tNR^6(C{=}O)(CR^6R^6)_tR^8$, (uu) –haloalkyl, (vv) –$C(O)(CR^6)[(CR^6R^6)_tR^8]R^8$, (ww) –$(CR^6R^6)_tC(O)NR^8R^8$, (xx) –$(CR^6R^6)_tC(O)O(CR^6R^6)_tR^8$, (yy) –$NR^6C(O)CR^8R^8R^8$, (zz) –$N[(CR^6R^6)_tR^8]C(O)R^8$, and (aaa) –$S(O)_pNR^8R^8$;

wherein (ll) through (pp) is optionally substituted with one or more R^7 groups;

R^5 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) –CF_3, (g) –CN, (h) –N_3 (i) –NO_2, (j) –NR^6R^6, (k) –OR^8, (l) –$NR^6(CNR^6)NR^6R^6$, (m) –$C_{1–8}$ alkyl, (n) –$C_{2–8}$ alkenyl, (o) –$C_{2–8}$ alkynyl, (p) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –haloalkyl, (s) –SR^6, (t) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (u) –3–14 member saturated, unsaturated, or aromatic carbocycle; alternatively, two R^5 groups are taken together to form a carbocycle,

wherein (m) through (r) and (t) through (u) is optionally substituted with one or more R^8;

R^6 is selected from (a) hydrogen, (b) –$C_{1–8}$ alkyl or alternatively two R^6 groups are taken together to form a carbocycle, (c) –haloalkyl, (d) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (e) –3–14 member saturated, unsaturated, or aromatic carbocycle;

wherein (b) through (e) is optionally substituted with one or more R^8;

R^7 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) –CF_3, (g) –CN, (h) –N_3 (i) –NO_2, (j) –NR^6R^6, (k) –OR^6, (l) –$NR^6(CNR^6)NR^6R^6$, (m) –$C_{1–8}$ alkyl, (n) –$C_{2–8}$ alkenyl, (o) –$C_{2–8}$ alkynyl, (p) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle

containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –haloalkyl, (s) –NR^6R^8, (t) –OR^8, (u) –$(CR^6R^6)_tNR^6R^8$, (v) –$CR^6R^8R^8$, (w) –SR^6, (x) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (y) –3–14 member saturated, unsaturated, or aromatic carbocycle, (z) –$(CR^6R^6)_tC(O)NR^8R^8$, (aa) –$S(O)_pR^8$, (bb) –$NR^6C(O)NR^6R^6$, (cc) –$NR^6C(O)R^6$, and (dd) –$C(=NR^6)NR^6R^6$;

wherein (m) through (q) and (x) through (y) are optionally substituted with one or more $R^{9;}$

R^8 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) –CF_3, (g) –CN, (h) –N_3 (i) –NO_2, (j) –NR^6R^9, (k) –OR^9, (l) –$NR^6(CNR^6)NR^6R^6$, (m) –$C_{1–8}$ alkyl, (n) –$C_{2–8}$ alkenyl, (o) –$C_{2–8}$ alkynyl, (p) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (s) –3–14 member saturated, unsaturated, or aromatic carbocycle, (t) –haloalkyl, (u) –$C(O)(CR^6R^6)_tR^9$, (v) –SR^6, (w) –$OC(O)(CR^6R^6)_tR^9$, (x) –$NR^6C(O)NR^6R^9$, (y)–$NR^6C(O)R^9$, (z) –$NR^6(CNR^9)(NR^6R^6)$, (aa) –$ONR^6(CNR^6)NR^6R^6$, (bb) –$C(=NR^9)NR^6R^6$, (cc) –$S(O)_pR^9$, (dd) –$(CR^6R^6)_tC(O)NR^6R^9$, (ee) –$(CR^6R^6)_tOR^9$, and (ff) –$(CR^6R^6)_tNR^6R^9$;

wherein (m) through (s) is optionally substituted with one or more R^9;

R^9 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) –CF_3, (g) –CN, (h) –N_3 (i) –NO_2, (j) –NR^6R^{10}, (k) –OR^6, (l) –$NR^6(CNR^6)NR^6R^6$, (m) –$C(O)(CR^6R^6)_tNR^6R^6$, (n) –$C_{1–8}$ alkyl, (o) –$C_{2–8}$ alkenyl, (p) –$C_{2–8}$ alkynyl, (q) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (r) –3–14 member saturated, unsaturated, or aromatic carbocycle, (s) –haloalkyl, (t) –$(CR^6R^6)_tOR^6$, (u) –$O(CR^6R^6)_tNR^6R^{10}$, (v) –$C(O)R^6$, (w) –SR^6, (x) –$C(O)OR^{10}$, (y) –$S(O)_pR^6$, (z) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and

sulfur), (aa) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (bb) –$O(CR^6R^6)_tOR^6$, (cc) –$C(=NR^6)NR^6R^6$, (dd) –ONR^6R^6, (ee) –$NR^6C(O)NR^6R^6$, (ff) –$O(CR^6R^6)_tOR^6$, (gg) –$NR^6C(O)R^6$, and (hh) –$(CR^6R^6)_tNR^6R^{10}$;

wherein (n) through (r) and (z) through (aa) is optionally substituted with one or more R^{10};

R^{10} is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) –CF_3, (g) –CN, (h) –N_3 (i) –NO_2, (j) –NR^6R^6, (k) –OR^6, (l) –$NR^6(CNR^6)NR^6R^6$, (m) –$C(O)(CR^6R^6)_tNR^6R^6$, (n) –$C_{1–8}$ alkyl, (o) –$C_{2–8}$ alkenyl, (p) –$C_{2–8}$ alkynyl, (q) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (r) –3–14 member saturated, unsaturated, or aromatic carbocycle, (s) –haloalkyl, (t) –$(CR^6R^6)_tOR^6$, (u) –$O(CR^6R^6)_tNR^6R^6$, (v) –$C(O)R^6$, (w) –SR^6, (x) –$C(O)OR^6$, (y) –$S(O)_pR^6$, (z) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (aa) –($C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (bb) –$O(CR^6R^6)_tOR^6$, (cc) –$C(=NR^6)NR^6R^6$, (dd) –ONR^6R^6, (ee) –$NR^6C(O)NR^6R^6$, (ff) –$O(CR^6R^6)_tOR^6$, (gg) –$NR^6C(O)R^6$, and (hh) –$(CR^6R^6)_tNR^6R^6$;

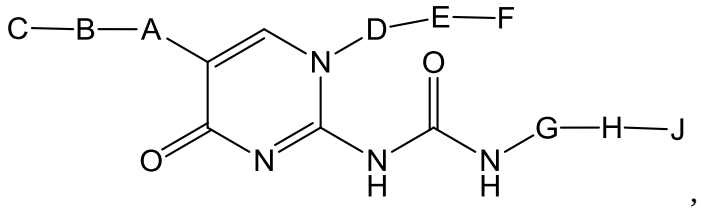
optionally, wherein either –D–E–F or –G–H–J is hydrogen;

p is 0, 1, or 2, and

t is 1, 2, or 3,

or a pharmaceutically acceptable salt or tautomer thereof.

4. The compound according to Claim 3 having the formula:



,

or a pharmaceutically acceptable salt or tautomer thereof.

5. The compound according to Claim 1, wherein

A is selected from

(a) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen and sulfur, and

(b) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (a) or (b) is optionally substituted with one or more R^5 groups;

B is selected from (a) –($C_{2–8}$ alkyl)–, (b) –($C_{2–8}$ alkenyl)–, and (c) –($C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (a)–(c) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –$C(=NR^6)$–, –$S(O)_pNR^6$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (a)–(c) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (a)–(c) immediately above optionally is substituted with –(C_1–C_8 alkyl)–R^5 groups, and

C is selected from (a) NH_2, (b) –$NHC(=NH)NH_2$ and (c) hydrogen; or a pharmaceutically acceptable salt or tautomer thereof.

6. The compound according to Claim 1, wherein

A is selected from azepanyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, phenyl, pyridinyl, cyclohexenyl, cyclohexadienyl, dihydropyridyl, tetrahydropyridyl, azetidinyl, pyrrolidinyl, piperidinyl, and piperidenyl;

wherein any of A immediately above optionally is substituted with one or more R^5 groups;

B is (a) –($C_{2–8}$ alkyl)–, wherein

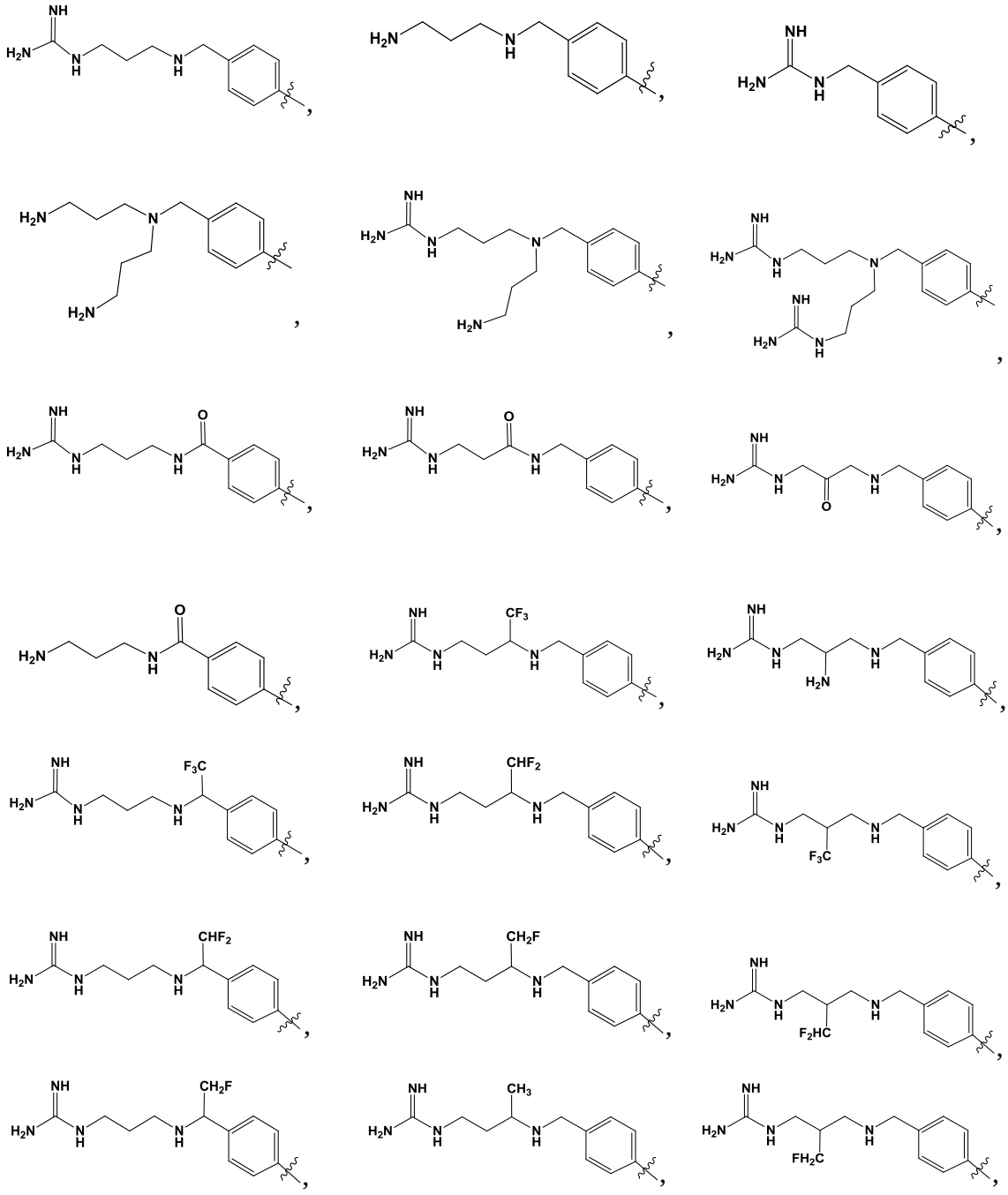
i) 0–4 carbon atoms in (a) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–,–$S(O)_pNR^6$–, and –$NR^6S(O)_pNR^6$–,

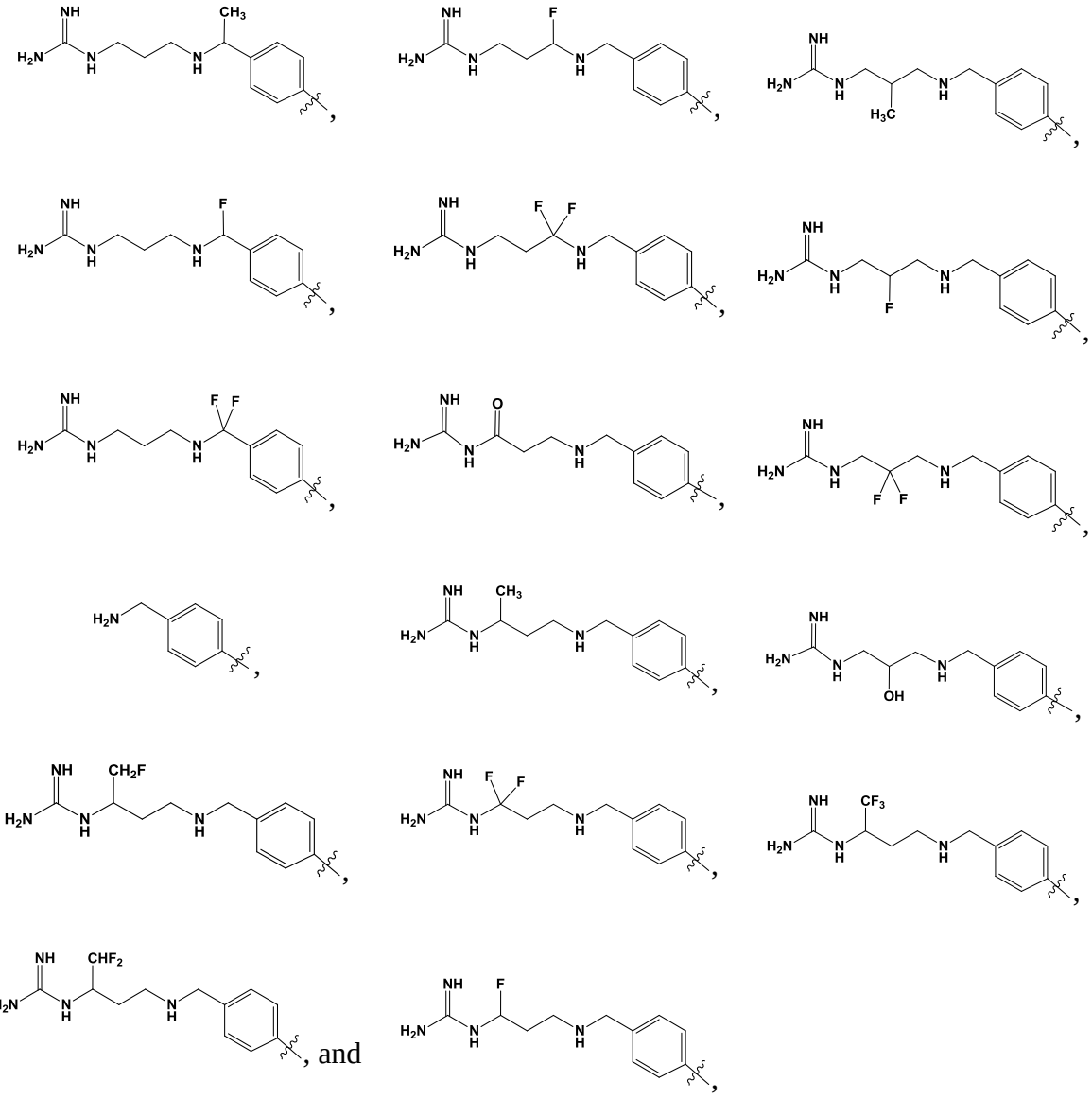
ii) (a) immediately above optionally is substituted with one or more R^5 groups, and

iii) (a) immediately above optionally is substituted with –($C_{1–8}$ alkyl)–R^5 groups; and

C is selected from (a) NH_2, (b) $–NHC(=NH)NH_2$ and (c) hydrogen; or a pharmaceutically acceptable salt or tautomer thereof.

7. The compound according to Claim 1, wherein C–B–A– is selected from the group consisting of:

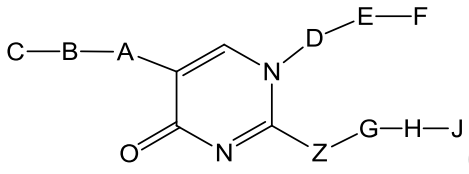




, and

or a pharmaceutically acceptable salt or tautomer thereof.

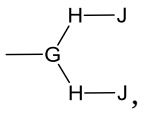
8. A compound having the formula:



(Ia),

wherein Z is selected from the group consisting of $S(O)_n$, NR^4CO, and NR^4CONR^4, in which R^4 is hydrogen or $C_{1–8}$ alkyl, and n is 0, 1, or 2;

wherein –G–H–J, alternatively, is



wherein each H and J are independently selected,

C–B–A–, –D–E–F, and –G–H–J are chemical moieties, wherein

A is selected from the group consisting of:

(b) –($C_{1–8}$ alkyl)– , (c) –($C_{2–8}$ alkenyl)–, (d) –($C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (b)–(d) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –$S(O)_pNR^6$–, –$NR^6S(O)_p$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (b)–(d) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (b)–(d) immediately above optionally is substituted with –($C_{1–8}$ alkyl)–R^5 groups;

(e) –O–, (f) –NR^6–, (g) –$S(O)_p$–, (h) –C(O)–, (i) –C(O)O–, (j) –OC(O)–, k) –OC(O)O–, (m) –NR^6CO–, (n) –NR^6C(O)NR^6–, (o) –C(=NR^6)–, (p) –C(=NR^6)O–, (q) –OC(=NR^6)–, (r) –C(=NR^6)NR^6–, (s) –NR^6C(=NR^6)–, (t) –C(=S)–, (u) –C(=S)NR^6–, (v) –NR^6C(=S)–, (w) –C(O)S–, (x) –SC(O)–, (y) –OC(=S)–, (z) –C(=S)O–, (aa) –NR^6(CNR^6)NR^6–, (bb) –CR^6R^6C(O)–, (cc) –C(O)NR^6(CR^6R^6)$_t$–, (dd) a 6, 7, 8, 9,10, 11, or 12 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(ee) a 3–14 member saturated, unsaturated, or aromatic carbocycle, and

(ff) –(CR^6R^6)$_t$–,

wherein (dd) or (ee) is optionally substituted with one or more R^5 groups;

D is independently selected from the group consisting of:

(a) a single bond, (b) –($C_{1–8}$ alkyl)– , (c) –($C_{2–8}$ alkenyl)–, (d) –($C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (b)–(d) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –(C=O)–, –$S(O)_pNR^6$–, –$NR^6S(O)_p$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (b)–(d) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (b)–(d) immediately above optionally is substituted with –($C_{1–8}$ alkyl)–R^5 groups;

(e) –O–, (f) –NR^6–, (g) –$S(O)_p$–, (h) –C(O)–, (i) –C(O)O–, (j) –OC(O)–, k) –OC(O)O–, (l) –C(O)NR^6–, (m) –NR^6CO–, (n) –NR^6C(O)NR^6–, (o) –C(=NR^6)–, (p) –C(=NR^6)O–, (q) –OC(=NR^6)–, (r) –C(=NR^6)NR^6–, (s) –NR^6C(=NR^6)–, (t) –C(=S)–, (u) –C(=S)NR^6–, (v) –NR^6C(=S)–, (w) –C(O)S–, (x) –SC(O)–, (y) –OC(=S)–, (z) –C(=S)O–, (aa) –NR^6(CNR^6)NR^6–, (bb) –CR^6R^6C(O)–, (cc) –C(O)NR^6(CR^6R^6)$_t$–, (dd) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(ee) a 3–14 member saturated, unsaturated, or aromatic carbocycle, and

(ff) –(CR^6R^6)$_t$–,

wherein (dd) or (ee) is optionally substituted with one or more R^5 groups;

G is selected from

(a) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and

(b) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (a) or (b) is optionally substituted with one or more R^5 groups,

B is selected from the group consisting of:

(b) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(c) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (b) or (c) is optionally substituted with one or more R^5 groups;

(d) –($C_{2–8}$ alkyl)–, (e) –($C_{2–8}$ alkenyl)–, (f) –($C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (d)–(f) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –C(=NR^6)–, –$S(O)_pNR^6$–, –$NR^6S(O)_p$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (d)–(f) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (d)–(f) immediately above optionally is substituted with –($C_{1–8}$ alkyl)–R^5 groups;

and (g) –(CR^6R^6)$_t$–,

E and H are independently selected from the group consisting of:

(a) a single bond,

(b) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur,

(c) a 3–14 member saturated, unsaturated, or aromatic carbocycle,

wherein (b) or (c) is optionally substituted with one or more R^5 groups;

(d) –($C_{1–8}$ alkyl)–, (e) –($C_{2–8}$ alkenyl)–, (f) –($C_{2–8}$ alkynyl)–, wherein

i) 0–4 carbon atoms in any of (d)–(f) immediately above optionally is replaced by a moiety selected from the group consisting of –O–, –$S(O)_p$–, –NR^6–, –(C=O)–, –$C(=NR^6)$–, –$S(O)_pNR^6$–, –$NR^6S(O)_p$–, and –$NR^6S(O)_pNR^6$–,

ii) any of (d)–(f) immediately above optionally is substituted with one or more R^5 groups, and

iii) any of (d)–(f) immediately above optionally is substituted with –($C_{1–8}$ alkyl)–R^5 groups;

and (g) –$(CR^6R^6)_t$–,

C, F, and J are independently selected from the group consisting of:

(a) hydrogen, (c) F, (d) Cl, (e) Br, (f) I, (g) –CF_3, (h) –CN, (i) –N_3 (j) –NO_2, (k) –$NR^6(CR^6R^6)_tR^8$, (l) –OR^8, (m) –$S(O)_p(CR^6R^6)_tR^8$, (n) –$C(O)(CR^6R^6)_tR^8$, (o) –$OC(O)(CR^6R^6)_tR^8$, (p) –$SC(O)(CR^6R^6)_tR^8$, (q) –$C(O)O(CR^6R^6)_tR^8$, (r) –$NR^6C(O)(CR^6R^6)_tR^8$, (s) –$C(O)NR^6(CR^6R^6)_tR^8$, (t) –$C(=NR^6)(CR^6R^6)_tR^8$, (u) –$C(=NNR^6R^6)(CR^6R^6)_tR^8$, (v) –$C(=NNR^6C(O)R^6)(CR^6R^6)_tR^8$, (w) –$C(=NOR^8)(CR^6R^6)_tR^8$, (x) –$NR^6C(O)O(CR^6R^6)_tR^8$, (y) –$OC(O)NR^6(CR^6R^6)_tR^8$, (z) –$NR^6C(O)NR^6(CR^6R^6)_tR^8$, (aa) –$NR^6S(O)_p(CR^6R^6)_tR^8$, (bb) –$S(O)_pNR^6(CR^6R^6)_tR^8$, (cc) –$NR^6S(O)_pNR^6(CR^6R^6)_tR^8$, (dd) –$NR^6R^8$, (ee) –$NR^6(CR^6R^6)R^8$, (ff) –OH, (gg) –$NR^8R^8$, (hh) –$OCH_3$, (ii) –$S(O)_pR^8$, (jj) –$NC(O)R^8$, (kk) –$NR^6C(NR^6)NR^6R^8$, (ll) $C_{1–8}$ alkyl, (mm) $C_{2–8}$ alkenyl, (nn) $C_{2–8}$alkynyl, (oo) a 3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (pp) a 3–14 member saturated, unsaturated, or aromatic carbocycle, (qq) –$(CR^6R^6)_tNR^6(CR^6R^6)_tR^8$, (rr) –$N[(CR^6R^6)_tR^8][C=O(CR^6R^6)_tR^8]$, (ss) –

$(CR^6R^6)_tN[(CR^6R^6)_tR^8][(CR^6R^6)_tR^8]$, (tt) $-(CR^6R^6)_tNR^6(C=O)(CR^6R^6)_tR^8$, (uu) –haloalkyl, (vv) $-C(O)(CR^6)[(CR^6R^6)_tR^8]R^8$, (ww) $-(CR^6R^6)_tC(O)NR^8R^8$, (xx) $-(CR^6R^6)_tC(O)O(CR^6R^6)_tR^8$, (yy) $-NR^6C(O)CR^8R^8R^8$, (zz) $-N[(CR^6R^6)_tR^8]C(O)R^8$, and (aaa) $-S(O)_pNR^8R^8$;

wherein (ll) through (pp) is optionally substituted with one or more R^7 groups;

R^5 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $-CF_3$, (g) –CN, (h) $-N_3$ (i) $-NO_2$, (j) $-NR^6R^6$, (k) $-OR^8$, (l) $-NR^6(CNR^6)NR^6R^6$, (m) $-C_{1-8}$ alkyl, (n) $-C_{2-8}$ alkenyl, (o) $-C_{2-8}$ alkynyl, (p) $-(C_{1-8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) $-(C_{1-8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –haloalkyl, (s) $-SR^6$, (t) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (u) –3–14 member saturated, unsaturated, or aromatic carbocycle; alternatively, two R^5 groups are taken together to form a carbocycle,

wherein (m) through (r) and (t) through (u) is optionally substituted with one or more R^8;

R^6 is selected from (a) hydrogen, (b) $-C_{1-8}$ alkyl or alternatively two R^6 groups are taken together to form a carbocycle, (c) –haloalkyl, (d) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (e) –3–14 member saturated, unsaturated, or aromatic carbocycle;

wherein (b) through (e) is optionally substituted with one or more R^8;

R^7 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $-CF_3$, (g) –CN, (h) $-N_3$ (i) $-NO_2$, (j) $-NR^6R^6$, (k) $-OR^6$, (l) $-NR^6(CNR^6)NR^6R^6$, (m) $-C_{1-8}$ alkyl, (n) $-C_{2-8}$ alkenyl, (o) $-C_{2-8}$ alkynyl, (p) $-(C_{1-8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) $-(C_{1-8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –haloalkyl, (s) $-NR^6R^8$, (t) $-OR^8$, (u) $-(CR^6R^6)_tNR^6R^8$, (v) $-CR^6R^8R^8$, (w) $-SR^6$, (x) –3–14

member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (y) –3–14 member saturated, unsaturated, or aromatic carbocycle, (z) $–(CR^6R^6)_tC(O)NR^8R^8$, (aa) $–S(O)_pR^8$, (bb) $–NR^6C(O)NR^6R^6$, (cc) $–NR^6C(O)R^6$, and (dd) $–C(=NR^6)NR^6R^6$;

wherein (m) through (q) and (x) through (y) are optionally substituted with one or more $R^{9;}$

R^8 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^9$, (k) $–OR^9$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C_{1–8}$ alkyl, (n) $–C_{2–8}$ alkenyl, (o) $–C_{2–8}$ alkynyl, (p) $–(C_{1–8}$ alkyl$)–$(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) $–(C_{1–8}$ alkyl$)–$(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (s) –3–14 member saturated, unsaturated, or aromatic carbocycle, (t) –haloalkyl, (u) $–C(O)(CR^6R^6)_tR^9$, (v) $–SR^6$, (w) $–OC(O)(CR^6R^6)_tR^9$, (x) $–NR^6C(O)NR^6R^9$, (y)$–NR^6C(O)R^9$, (z) $–NR^6(CNR^9)(NR^6R^6)$, (aa) $–ONR^6(CNR^6)NR^6R^6$, (bb) $–C(=NR^9)NR^6R^6$, (cc) $–S(O)_pR^9$, (dd) $–(CR^6R^6)_tC(O)NR^6R^9$, (ee) $–(CR^6R^6)_tOR^9$, and (ff) $–(CR^6R^6)_tNR^6R^9$;

wherein (m) through (s) is optionally substituted with one or more R^9;

R^9 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^{10}$, (k) $–OR^6$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C(O)(CR^6R^6)_tNR^6R^6$, (n) $–C_{1–8}$ alkyl, (o) $–C_{2–8}$ alkenyl, (p) $–C_{2–8}$ alkynyl, (q) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (r) –3–14 member saturated, unsaturated, or aromatic carbocycle, (s) –haloalkyl, (t) $–(CR^6R^6)_tOR^6$, (u) $–O(CR^6R^6)_tNR^6R^{10}$, (v) $–C(O)R^6$, (w) $–SR^6$, (x) $–C(O)OR^{10}$, (y) $–S(O)_pR^6$, (z) $–(C_{1–8}$ alkyl$)–$(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (aa) $–(C_{1–8}$ alkyl$)–$(3–14 member saturated, unsaturated, or aromatic carbocycle), (bb) $–O(CR^6R^6)_tOR^6$, (cc) $–C(=NR^6)NR^6R^6$, (dd) $–ONR^6R^6$, (ee) $–NR^6C(O)NR^6R^6$, (ff) $–O(CR^6R^6)_tOR^6$, (gg) $–NR^6C(O)R^6$, and (hh) $–(CR^6R^6)_tNR^6R^{10}$;

wherein (n) through (r) and (z) through (aa) is optionally substituted with one or more R^{10};

R^{10} is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NR^6R^6$, (k) $–OR^6$, (l) $–NR^6(CNR^6)NR^6R^6$, (m) $–C(O)(CR^6R^6)_tNR^6R^6$, (n) $–C_{1–8}$ alkyl, (o) $–C_{2–8}$ alkenyl, (p) $–C_{2–8}$ alkynyl, (q) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, (r) –3–14 member saturated, unsaturated, or aromatic carbocycle, (s) –haloalkyl, (t) $–(CR^6R^6)_tOR^6$, (u) $–O(CR^6R^6)_tNR^6R^6$, (v) $–C(O)R^6$, (w) $–SR^6$, (x) $–C(O)OR^6$, (y) $–S(O)_pR^6$, (z) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (aa) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (bb) $–O(CR^6R^6)_tOR^6$, (cc) $–C(=NR^6)NR^6R^6$, (dd) $–ONR^6R^6$, (ee) $–NR^6C(O)NR^6R^6$, (ff) $–O(CR^6R^6)_tOR^6$, (gg) $–NR^6C(O)R^6$, and (hh) $–(CR^6R^6)_tNR^6R^6$;
p is 0, 1, or 2, and
t is 1, 2, or 3,
or a pharmaceutically acceptable salt or tautomer thereof.

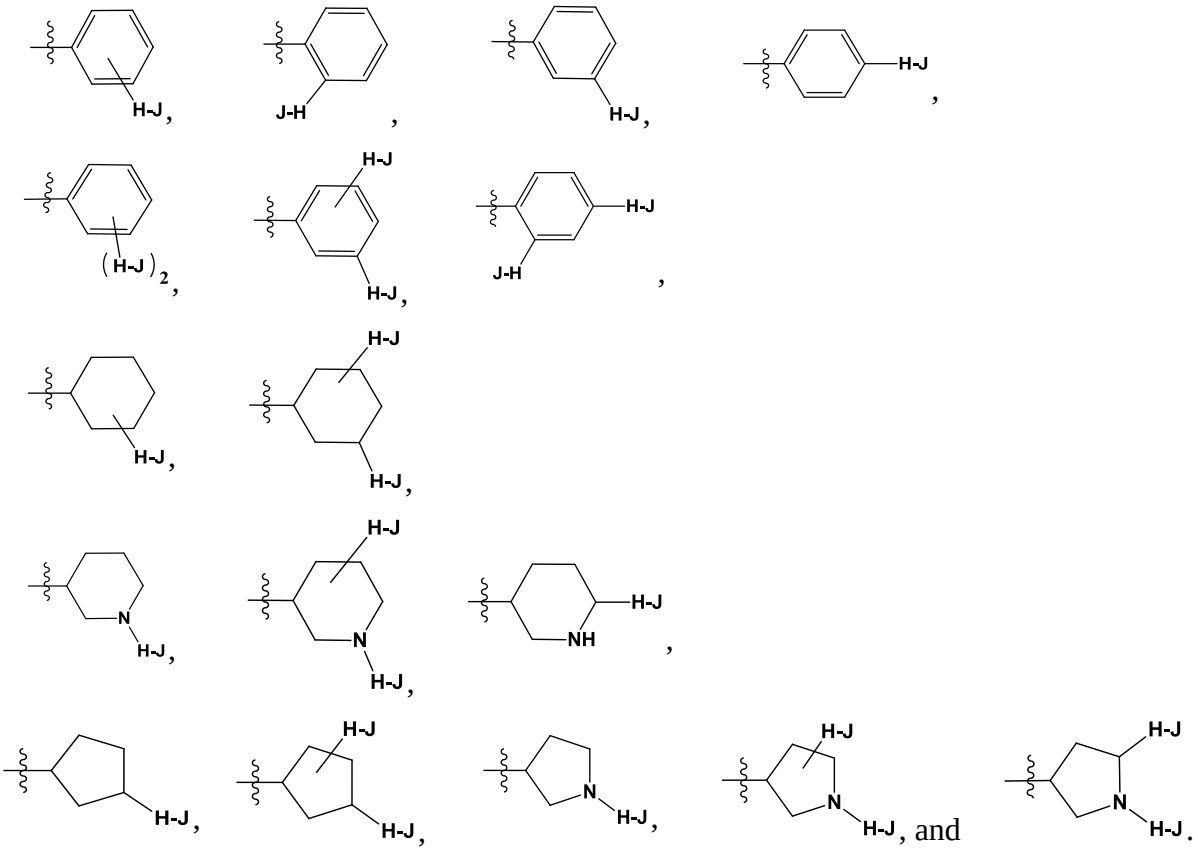
9. The compound according to Claim 1, wherein R^5 is selected from (a) hydrogen, (b) F, (c) Cl, (d) Br, (e) I, (f) $–CF_3$, (g) –CN, (h) $–N_3$ (i) $–NO_2$, (j) $–NH_2$, (k) $–OR^6$, (l) $–NHC(=NH)NH_2$, (m) $–C_{1–8}$ alkyl, (n) $–C_{2–8}$ alkenyl, (o) $–C_{2–8}$ alkynyl, (p) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur), (q) $–(C_{1–8}$ alkyl)–(3–14 member saturated, unsaturated, or aromatic carbocycle), (r) –haloalkyl, (s) $–SR^6$, (t) –3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (u) –3–14 member saturated, unsaturated, or aromatic carbocycle; alternatively, two R^5 groups are taken together to form a carbocycle, or a pharmaceutically acceptable salt or tautomer thereof.

10. The compound according to Claim 1, wherein R^6 is selected from (a) hydrogen, (b) $–C_{1–8}$ alkyl or alternatively two R^6 groups are taken together to form a carbocycle, (c) –haloalkyl, (d) –

3–14 member saturated, unsaturated, or aromatic heterocycle containing one or more heteroatoms selected from the group consisting of nitrogen, oxygen, and sulfur, and (e) –3–14 member saturated, unsaturated, or aromatic carbocycle, or a pharmaceutically acceptable salt or tautomer thereof.

11. The compound according to Claim 8, wherein G is selected from azepanyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, phenyl, pyridinyl, cyclohexenyl, cyclohexadienyl, dihydropyridyl, furanyl, tetrahydrofuranyl, tetrahydropyridyl, azetidinyl, pyrrolidinyl, piperidinyl, piperidenyl, and a single bond; or a pharmaceutically acceptable salt or tautomer thereof.

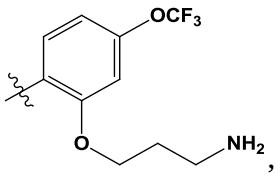
12. The compound according to Claim 8, wherein –G–H–J is selected from: hydrogen,



or a pharmaceutically acceptable salt or tautomer thereof.

13. The compound according to Claim 8, wherein each –G–H–J is selected from:

hydrogen,



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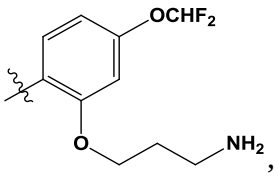

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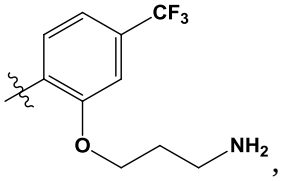

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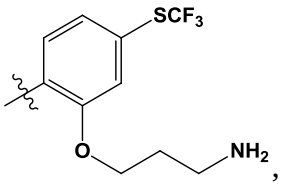

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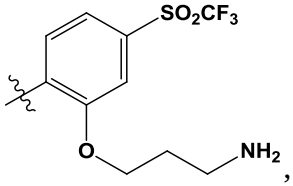

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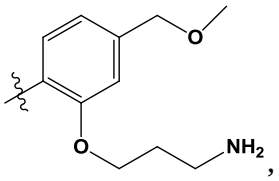

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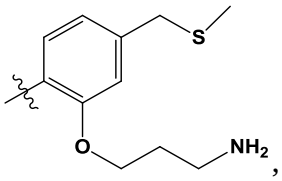

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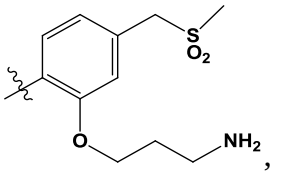

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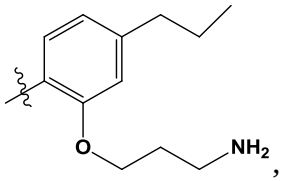

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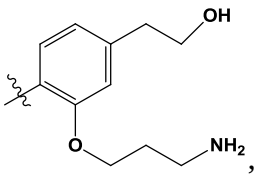

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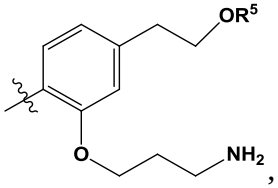

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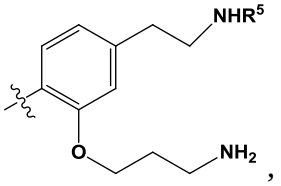

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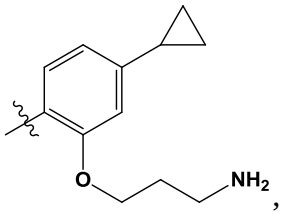

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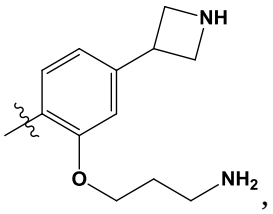

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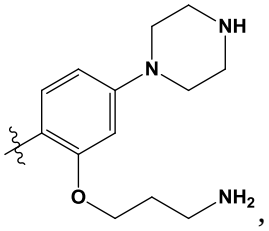

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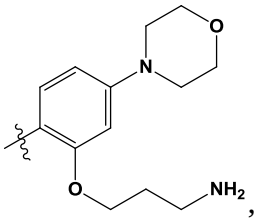

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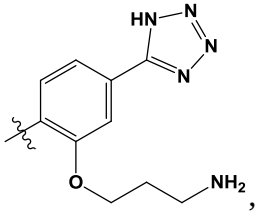

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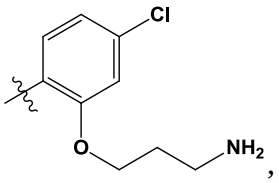

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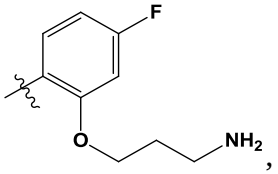

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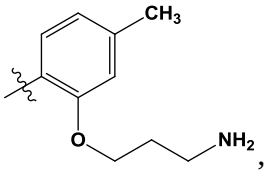

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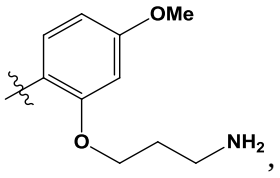

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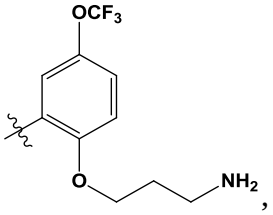

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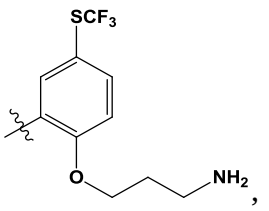

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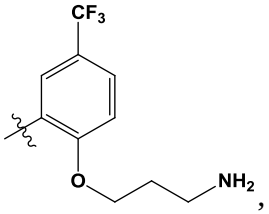

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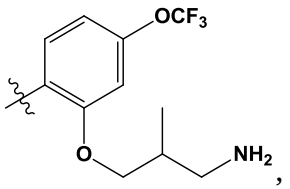
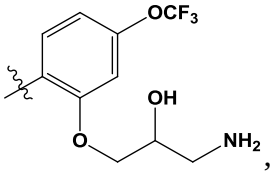
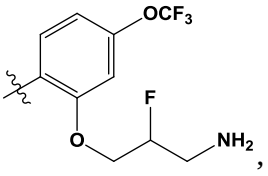
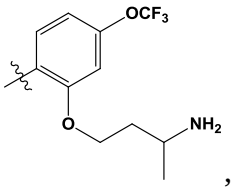
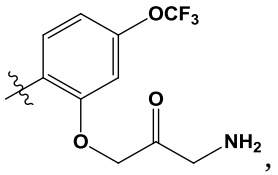
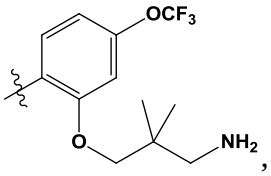
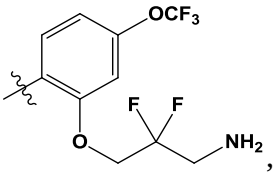
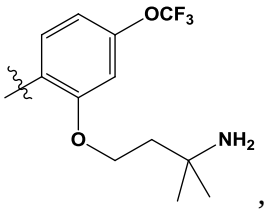
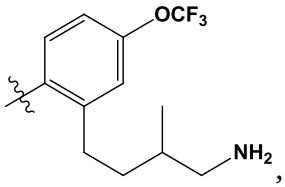
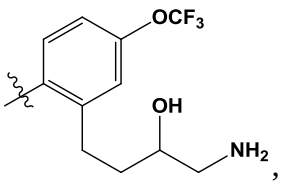
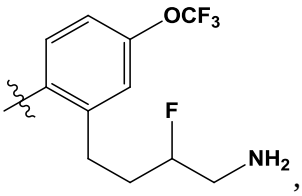
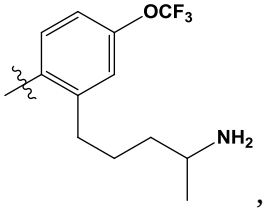
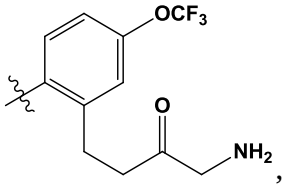
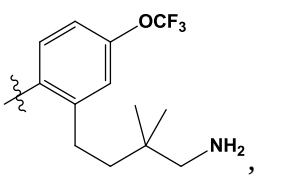
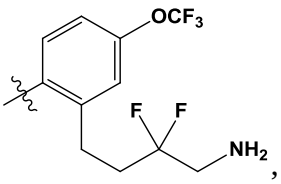
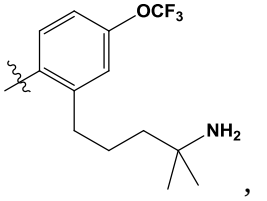
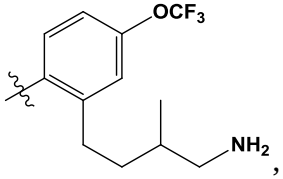
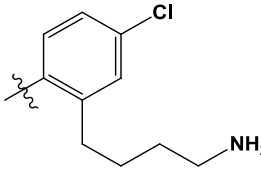
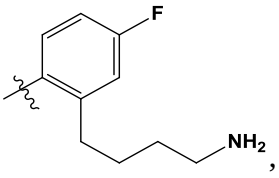
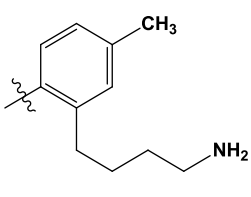

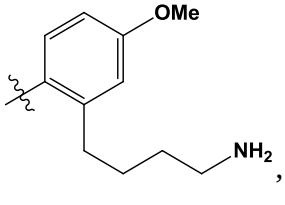
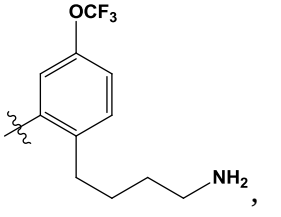
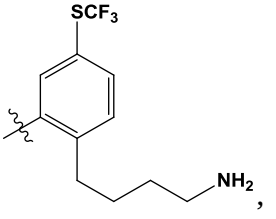
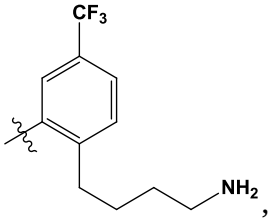
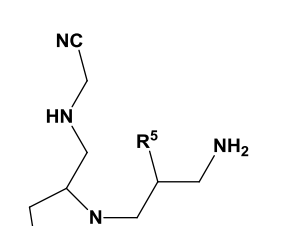
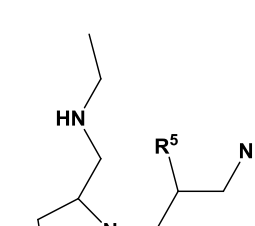
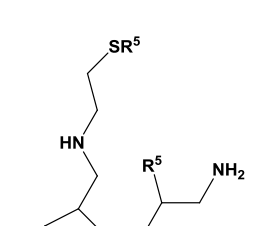
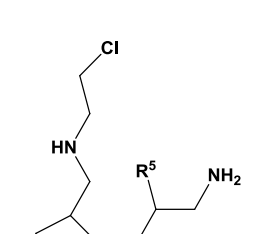

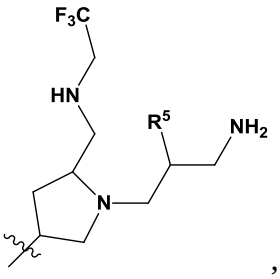
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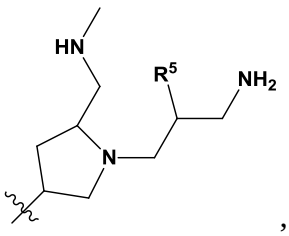
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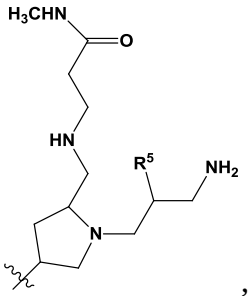
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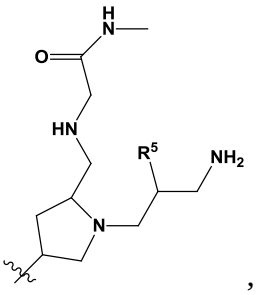
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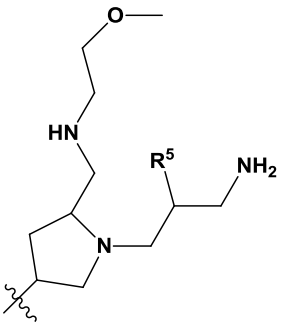
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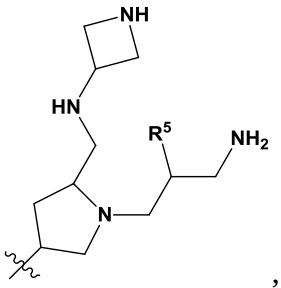
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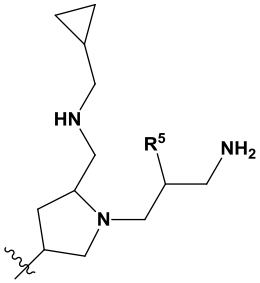
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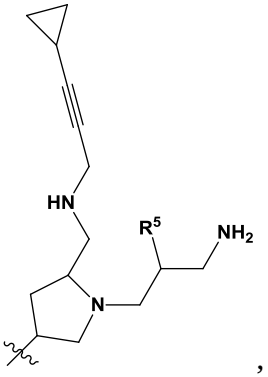
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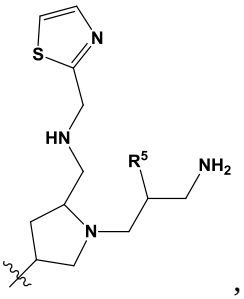
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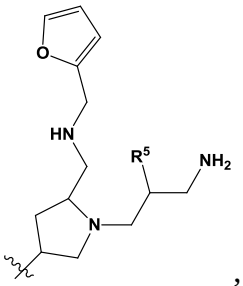
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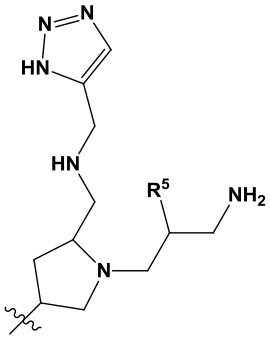
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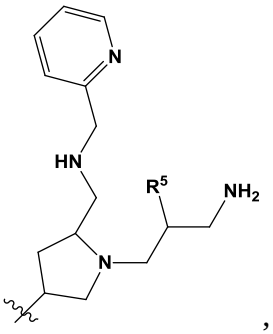
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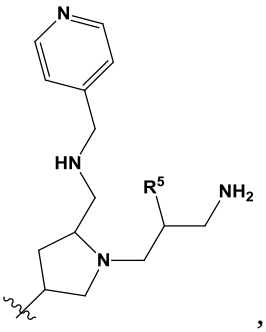
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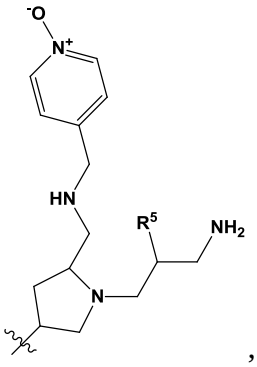
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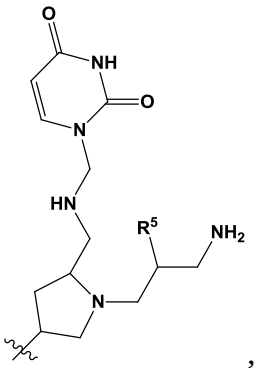
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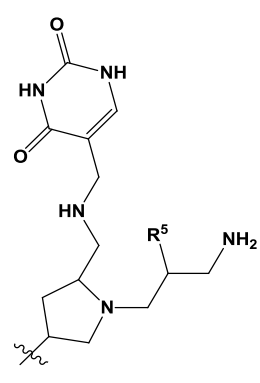
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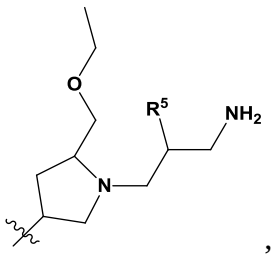
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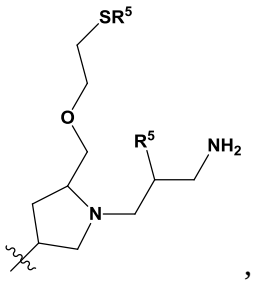
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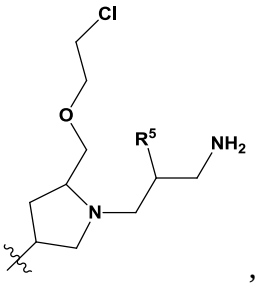
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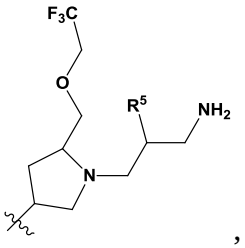
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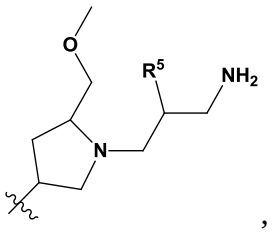
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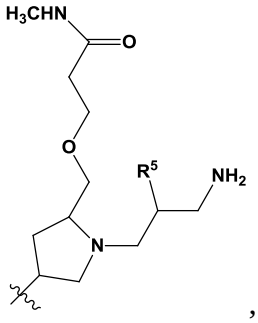
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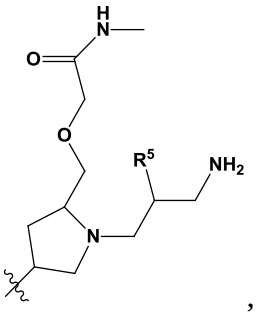
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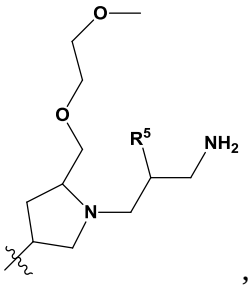
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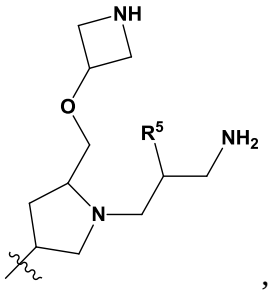
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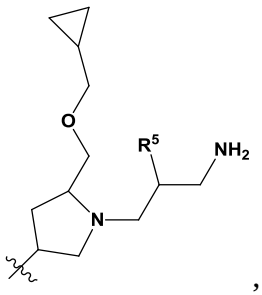
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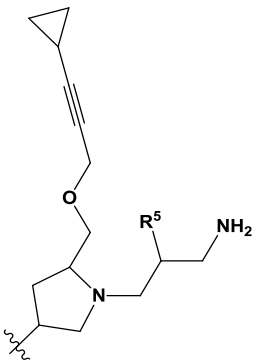
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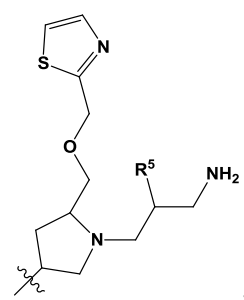
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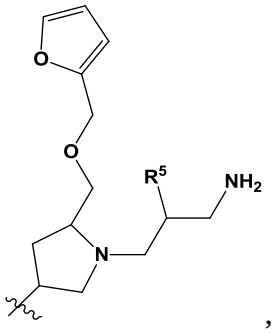
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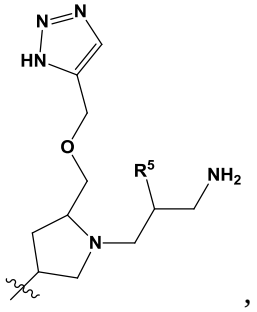
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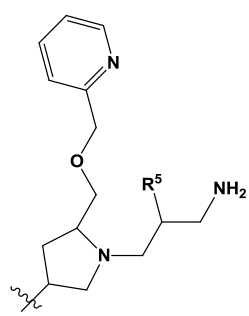
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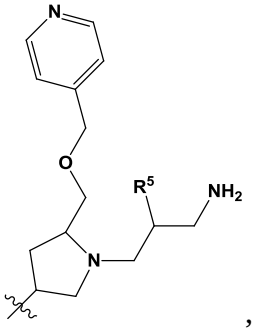
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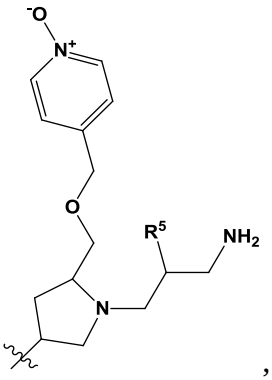
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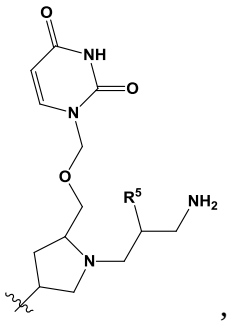
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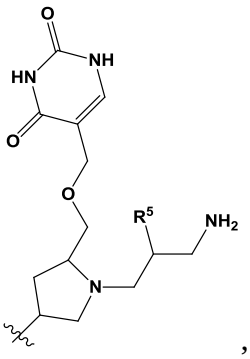
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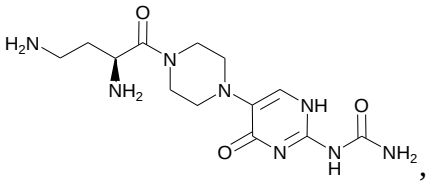
or a pharmaceutically acceptable salt or tautomer thereof.

14. A compound selected from the group consisting of: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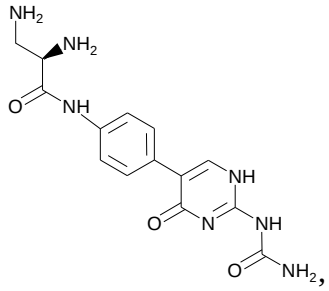
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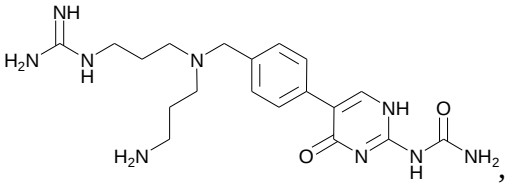
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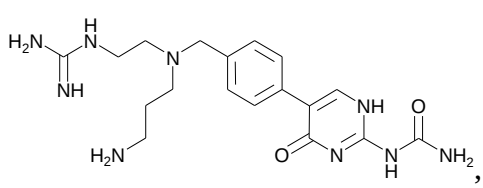
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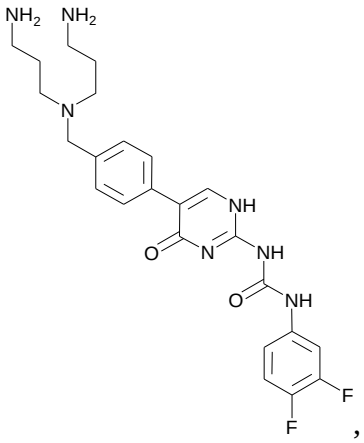

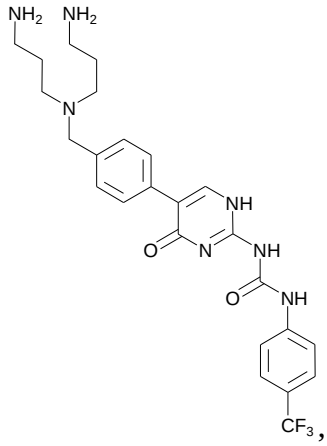

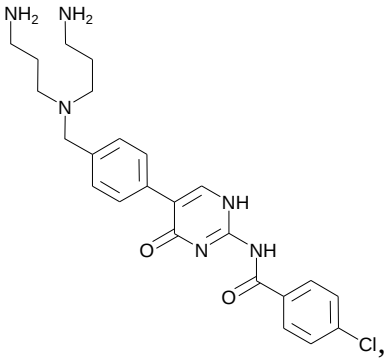

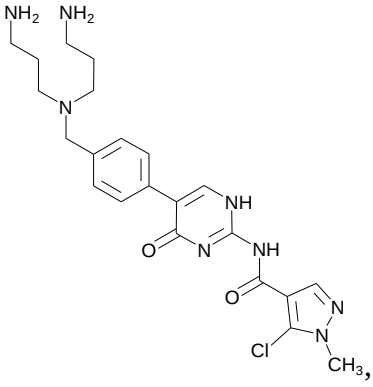

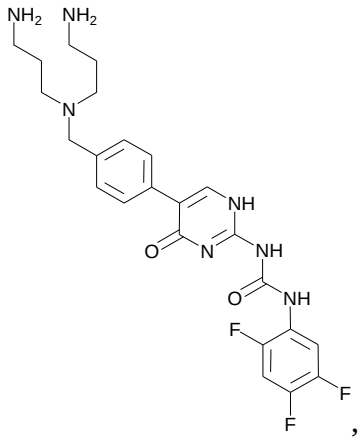

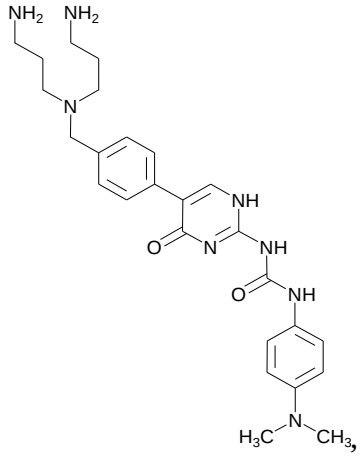

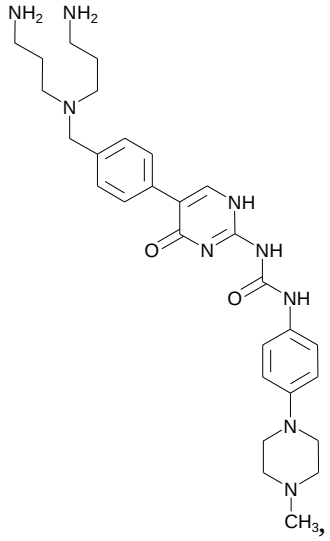

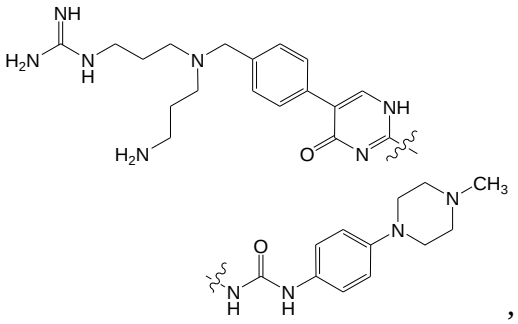

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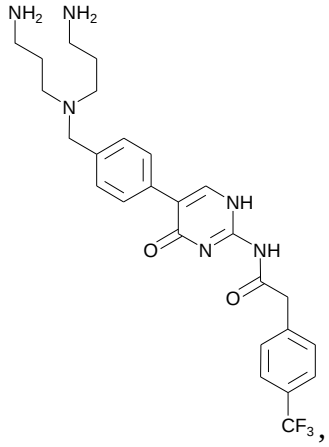

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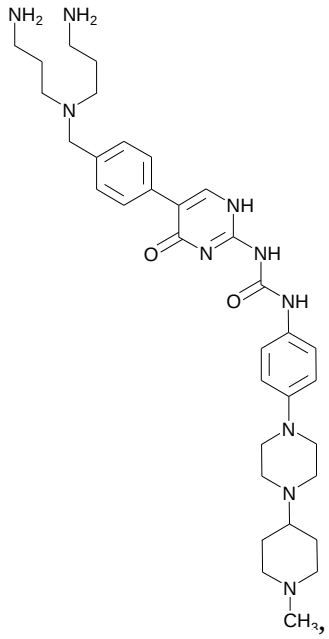

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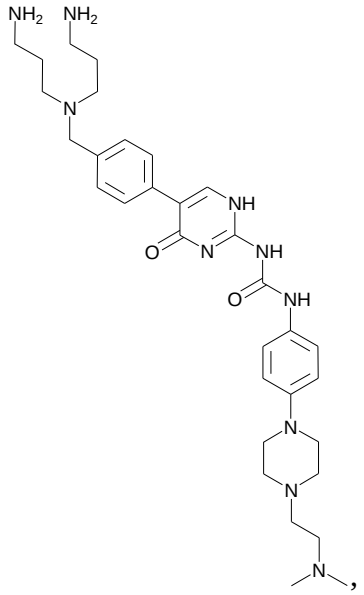

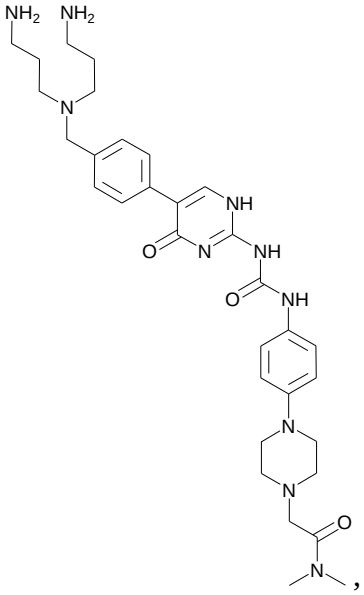

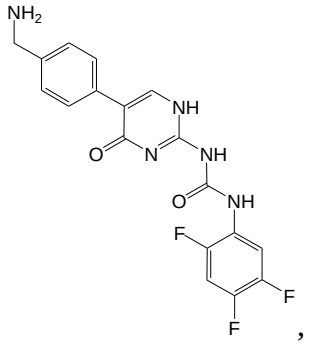

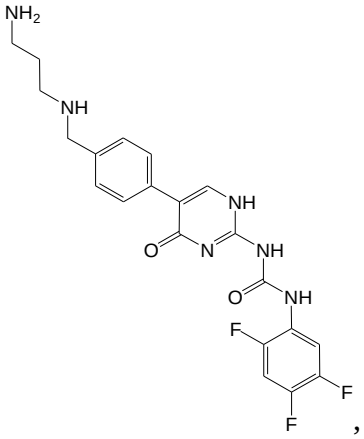

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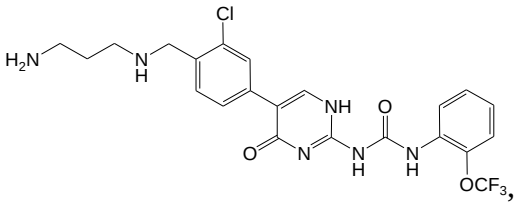

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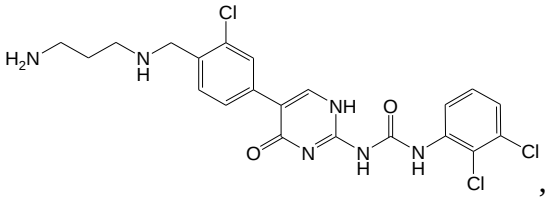

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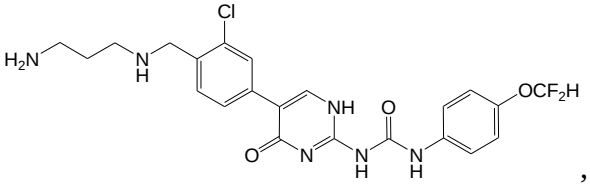

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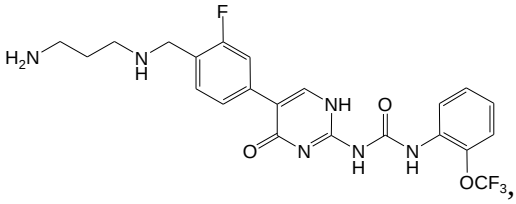

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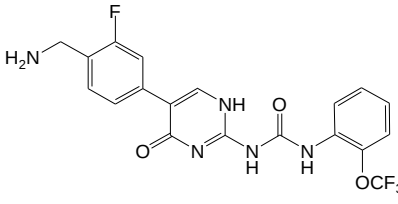

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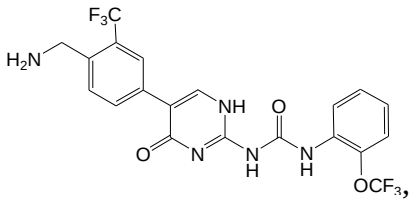

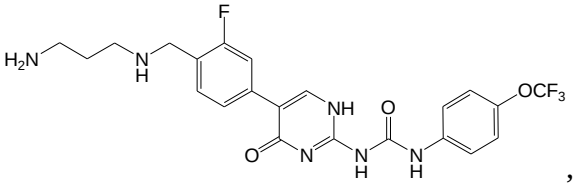

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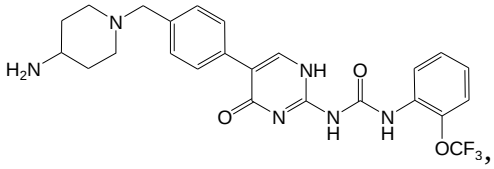

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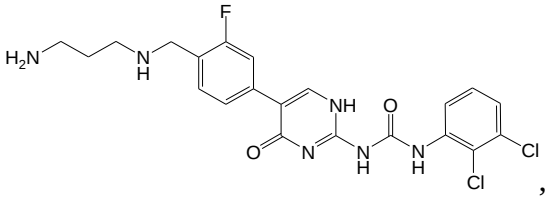

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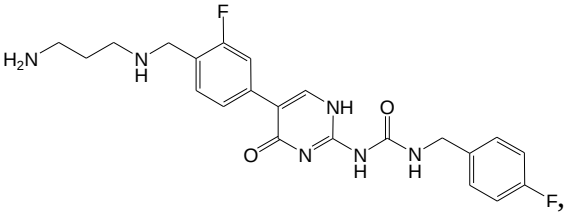

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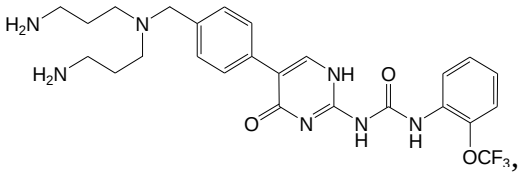

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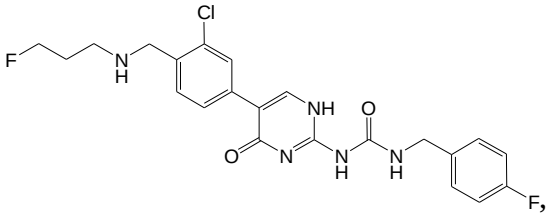

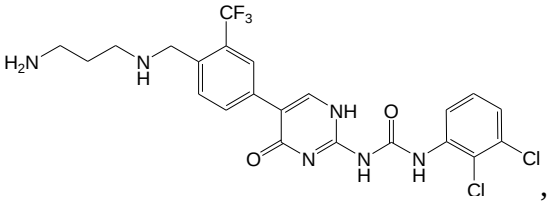

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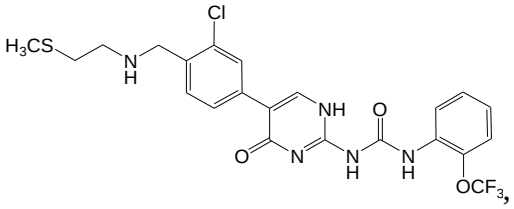

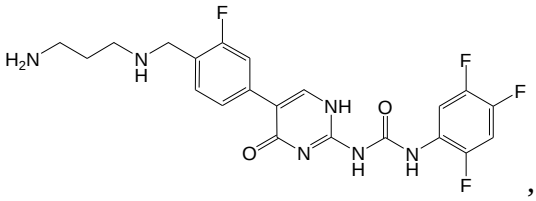

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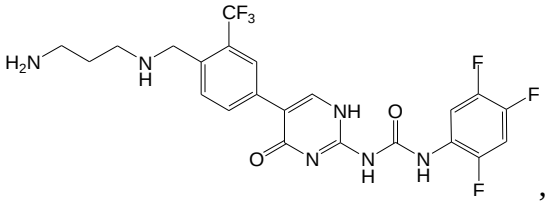

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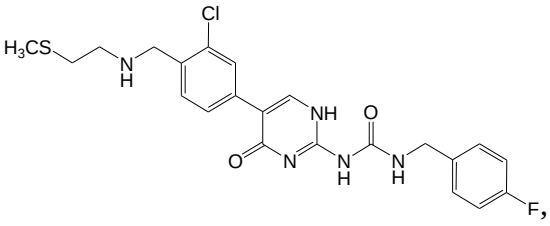

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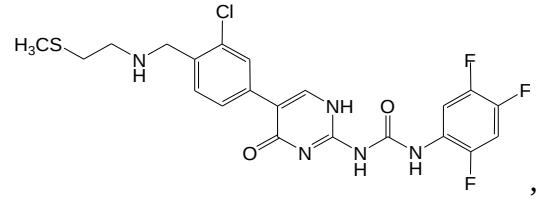

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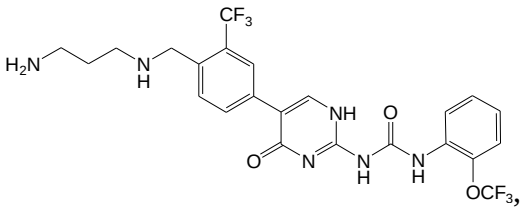

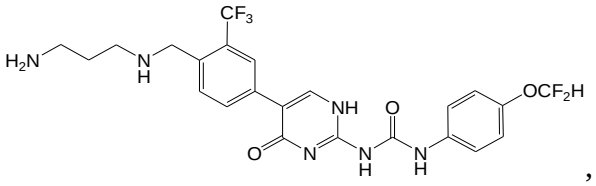

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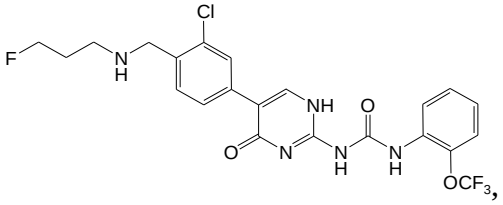

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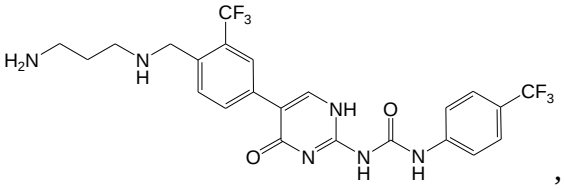

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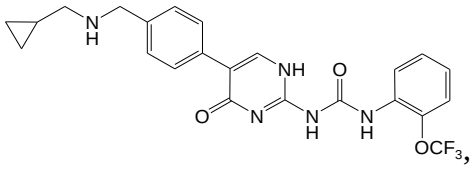

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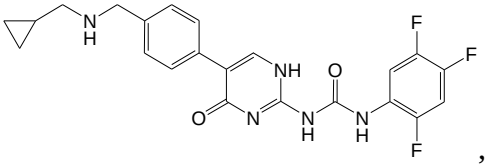

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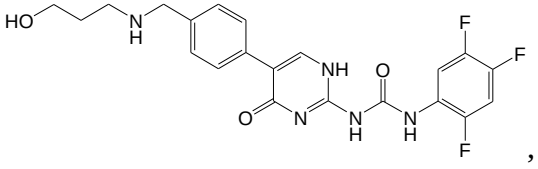

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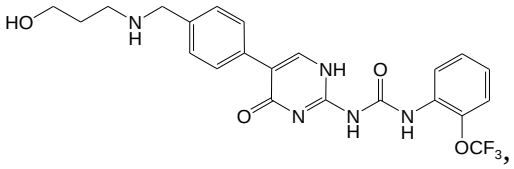
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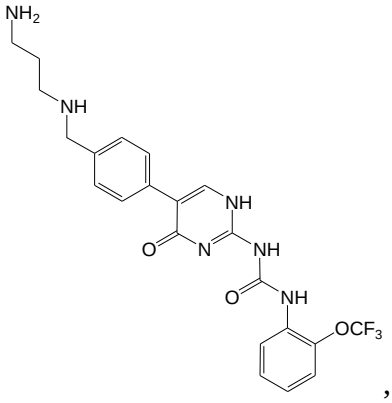
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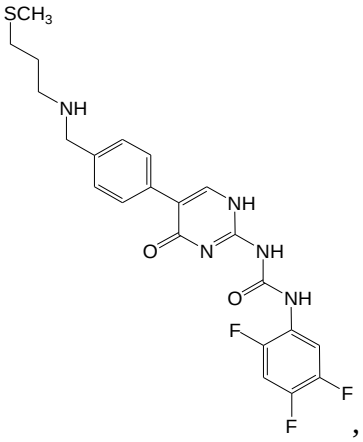
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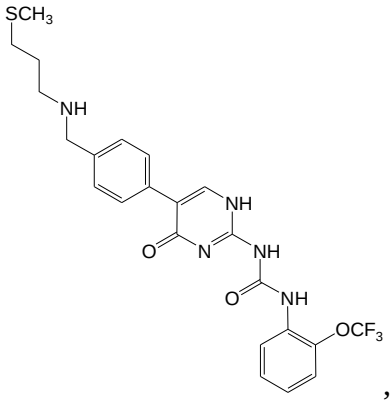
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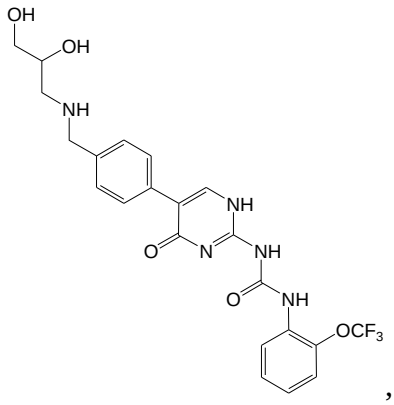
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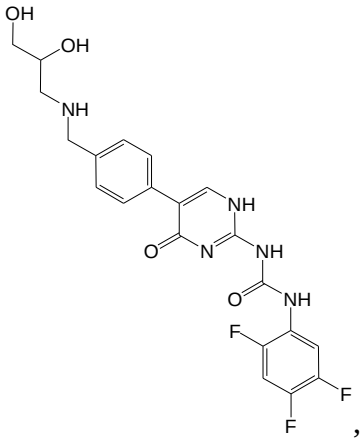
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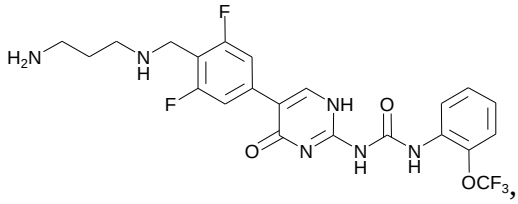
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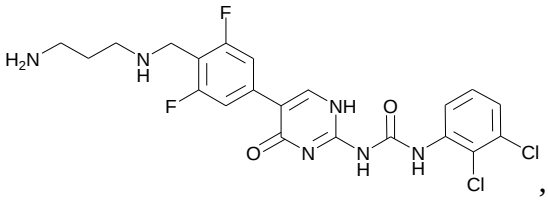
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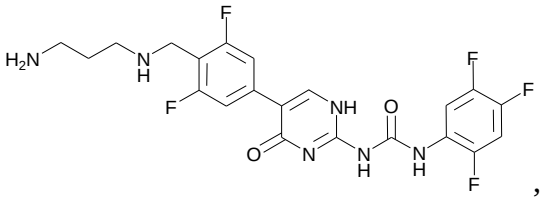
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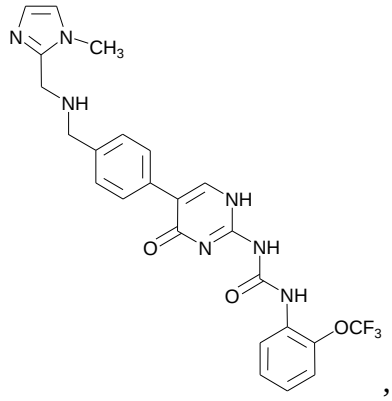

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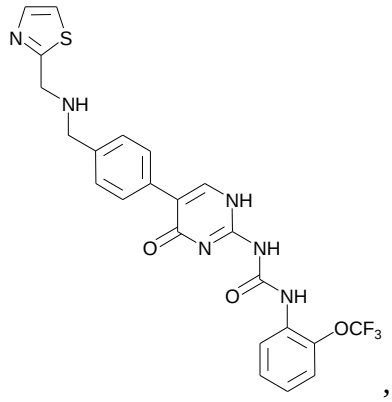

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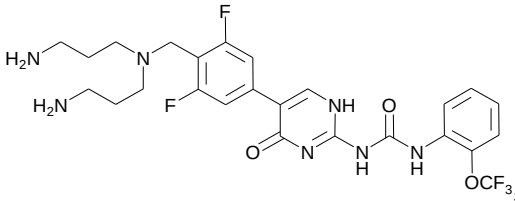

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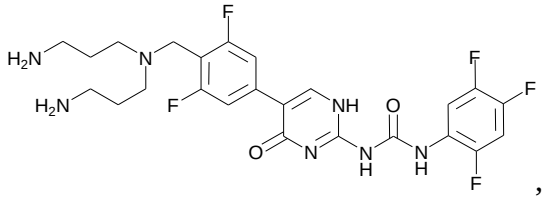

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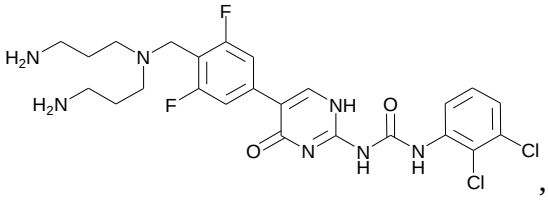

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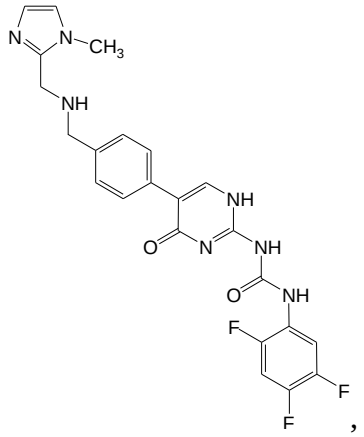

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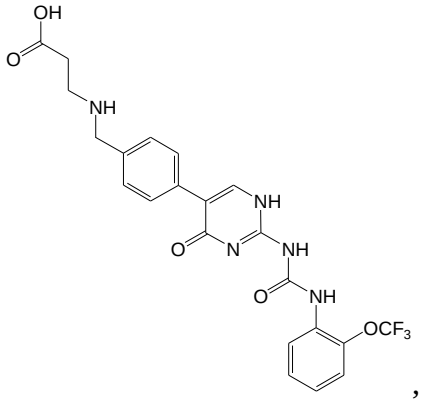

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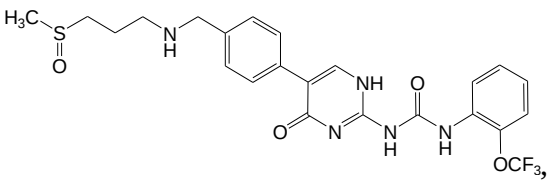

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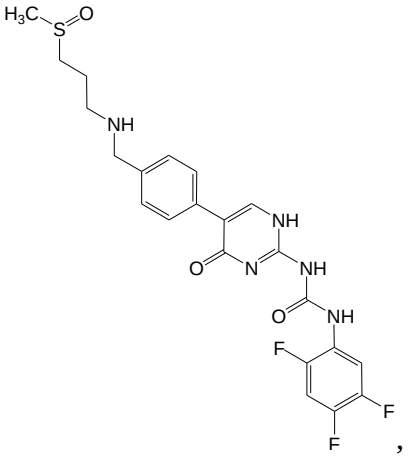

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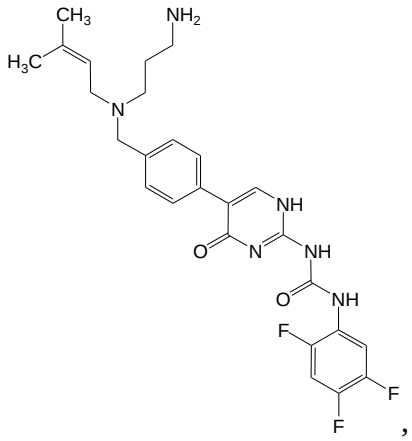

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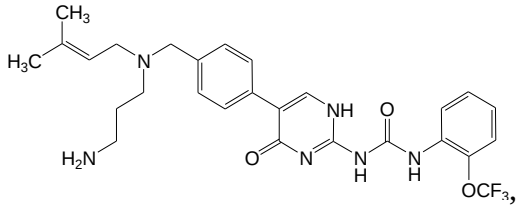

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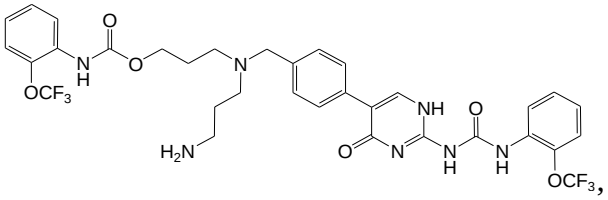

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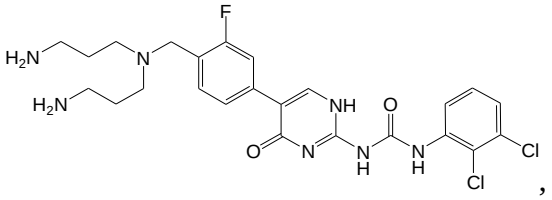

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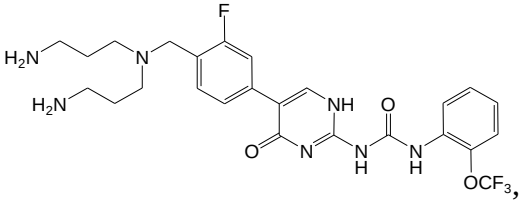

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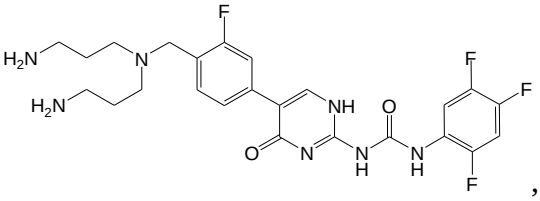

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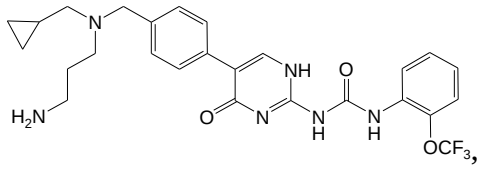

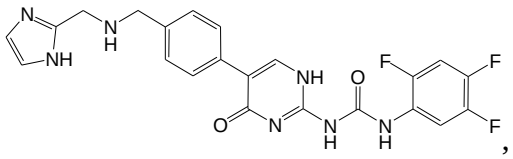

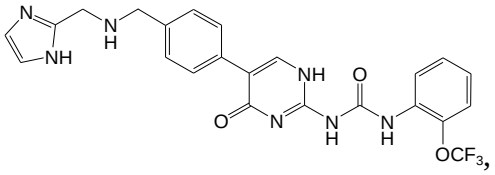

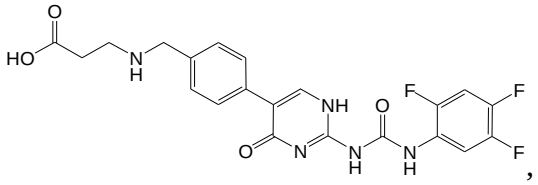

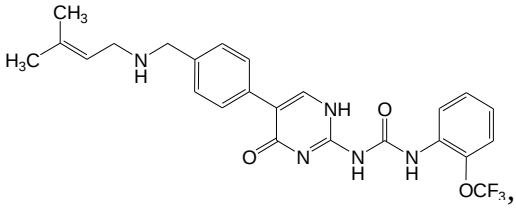

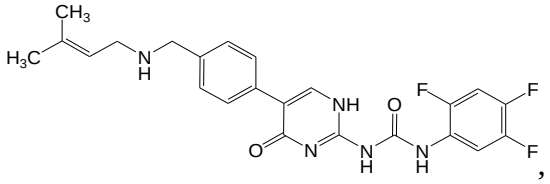

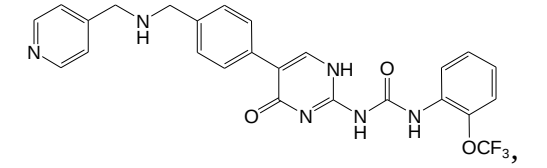

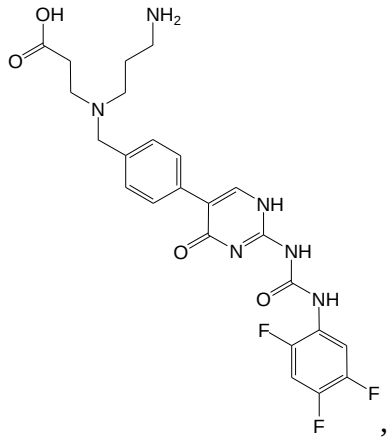
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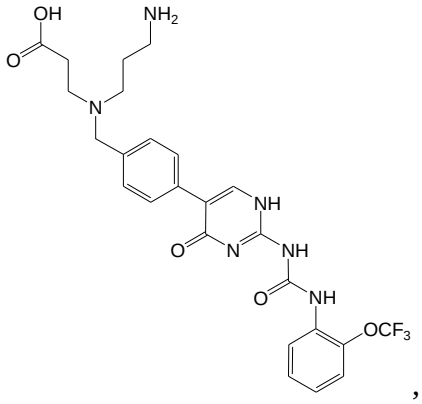
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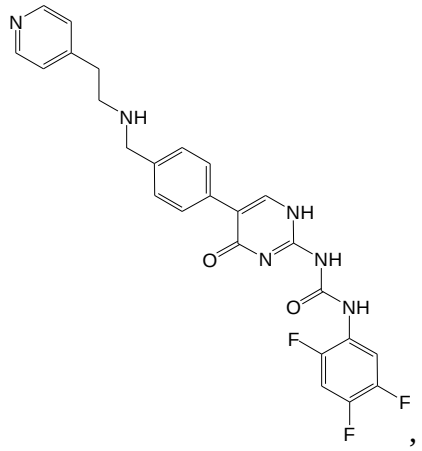
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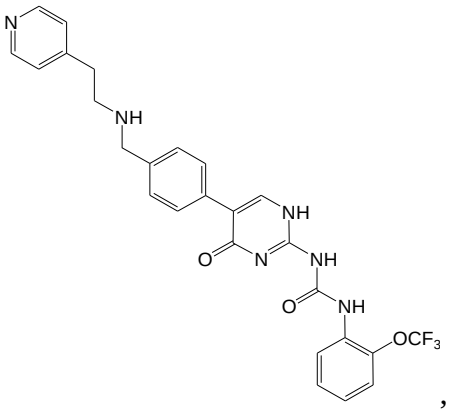
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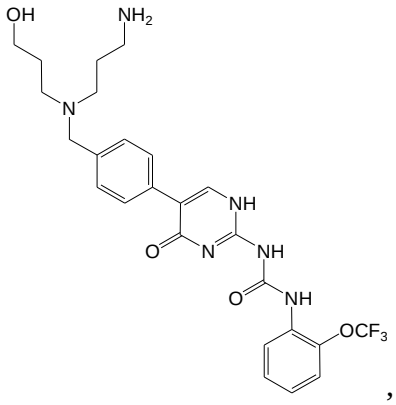
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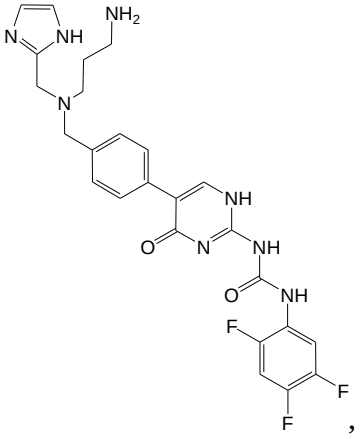
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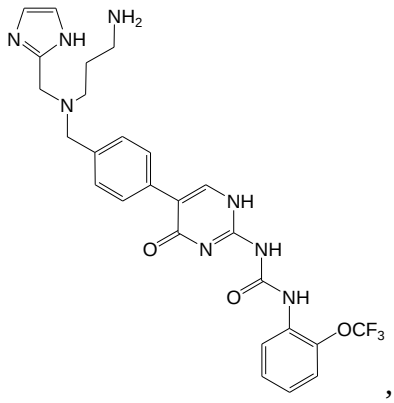
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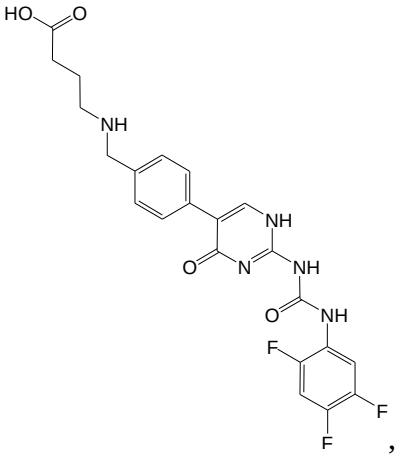
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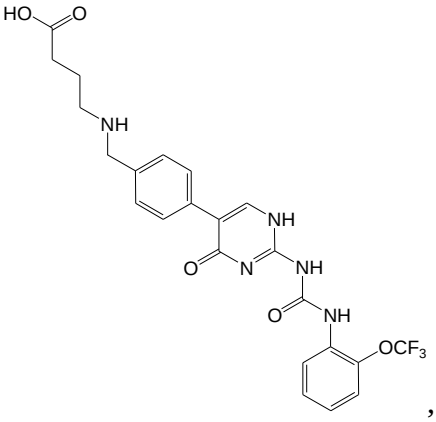
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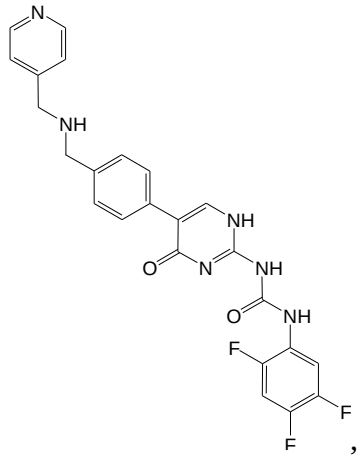
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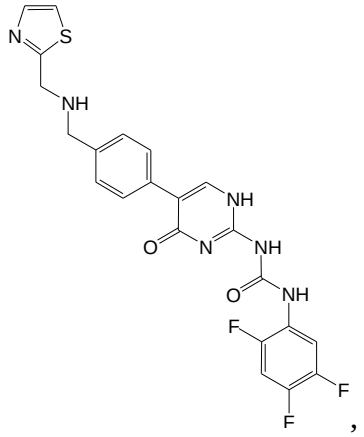
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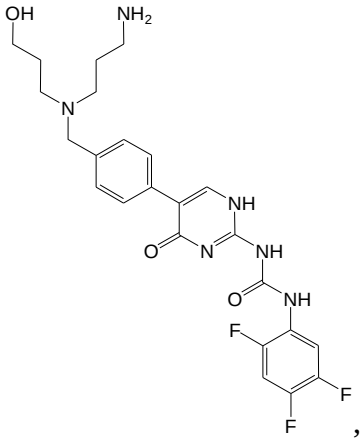
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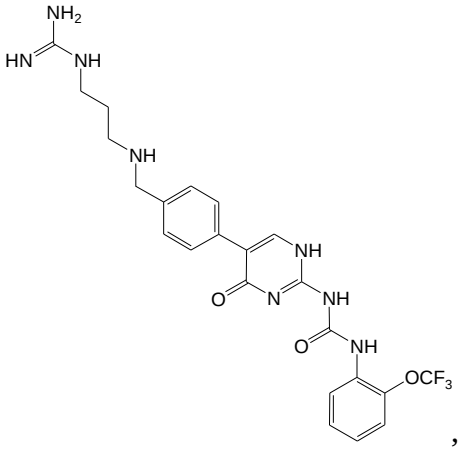

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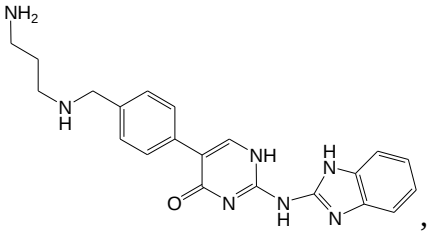

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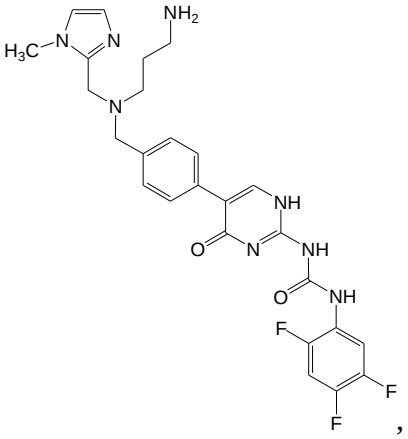

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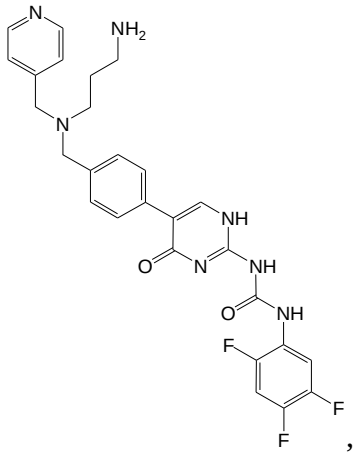

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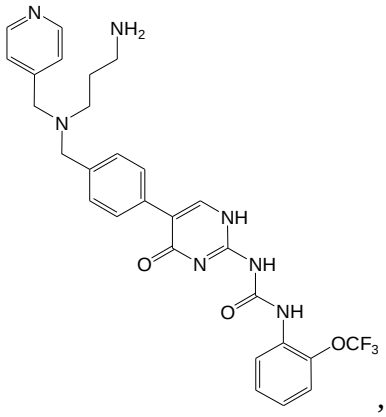
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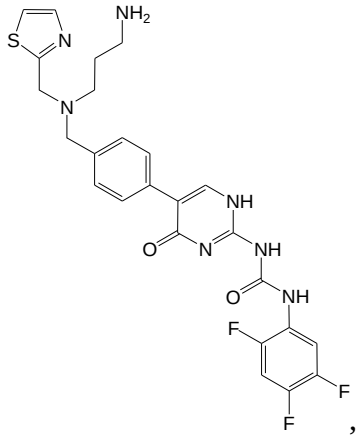
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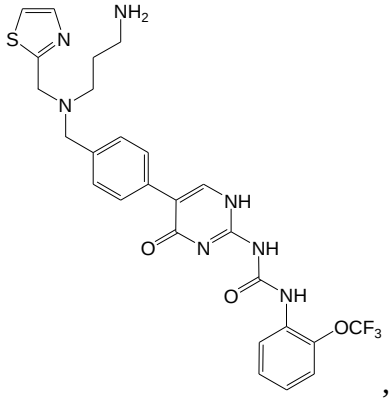
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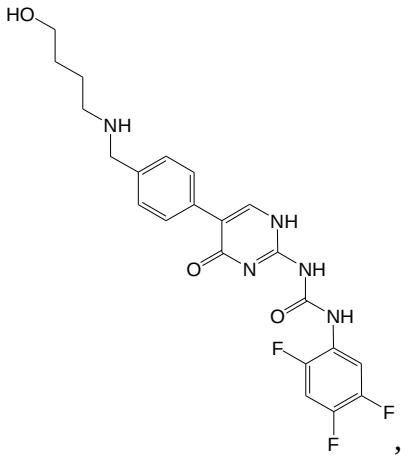

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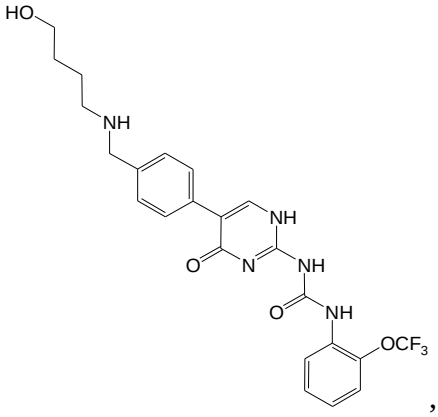

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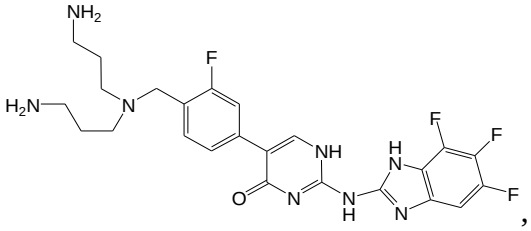

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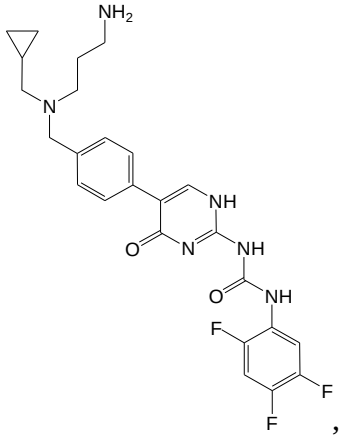

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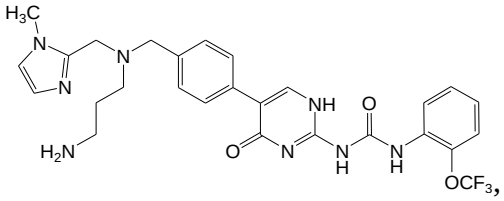

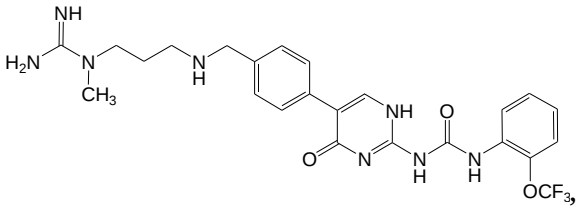

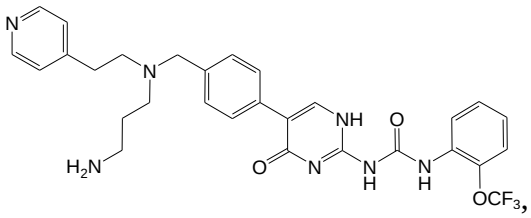

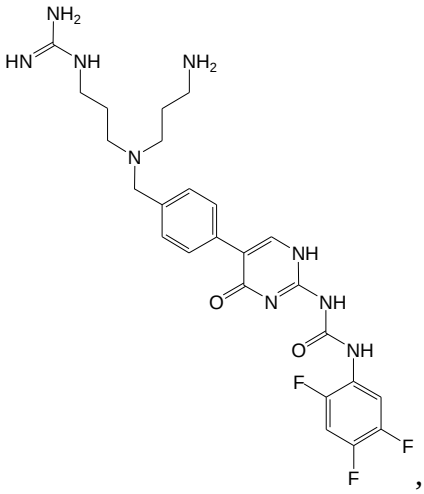

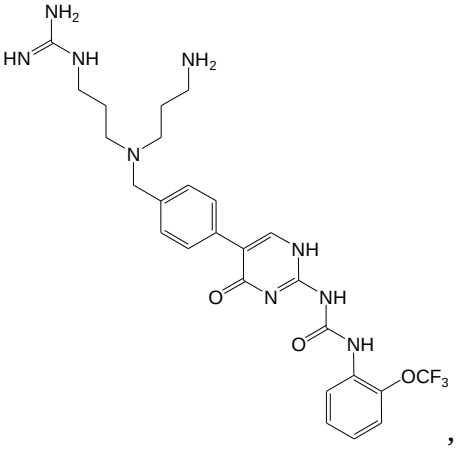

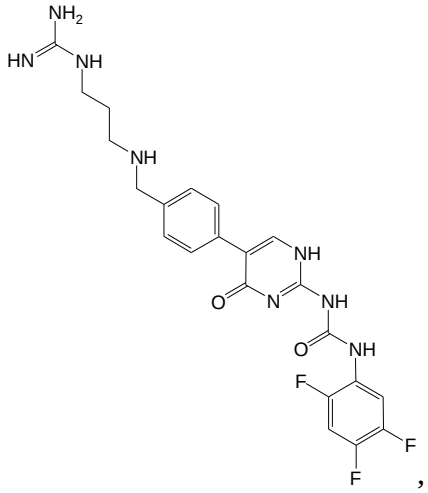

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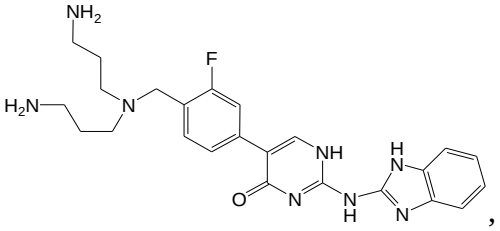

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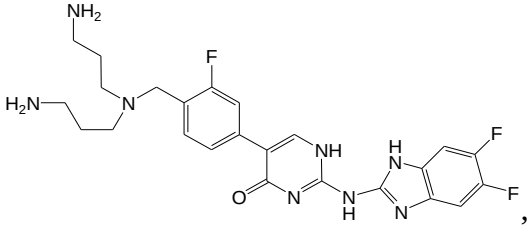

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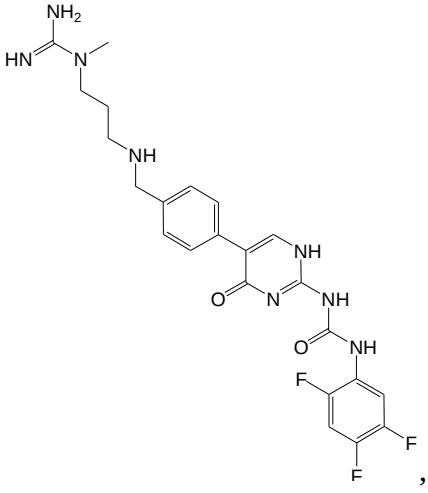

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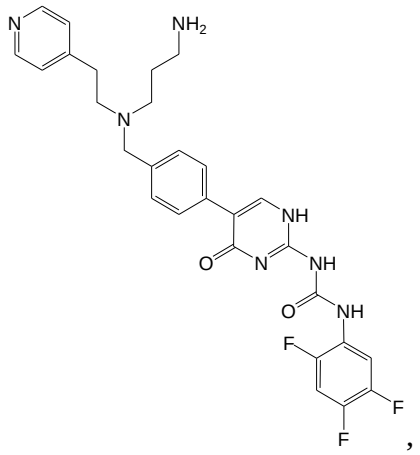

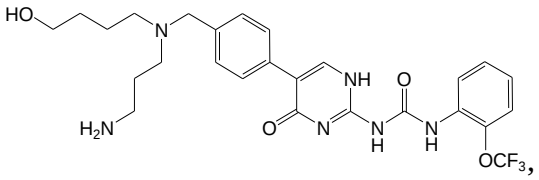

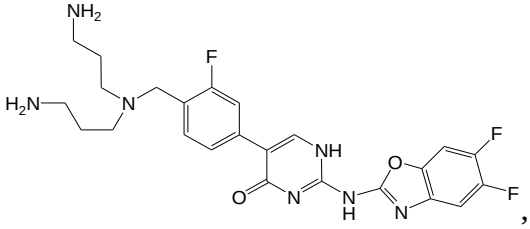

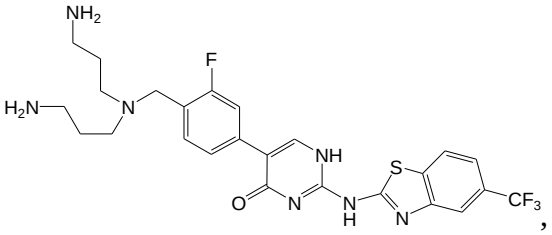

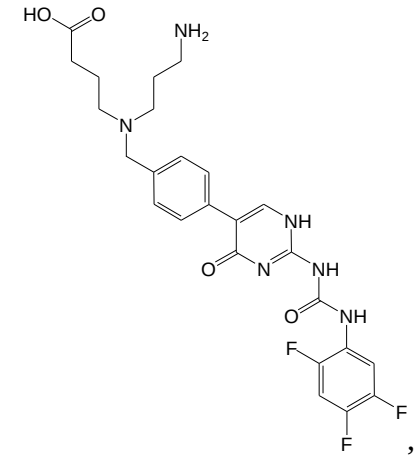

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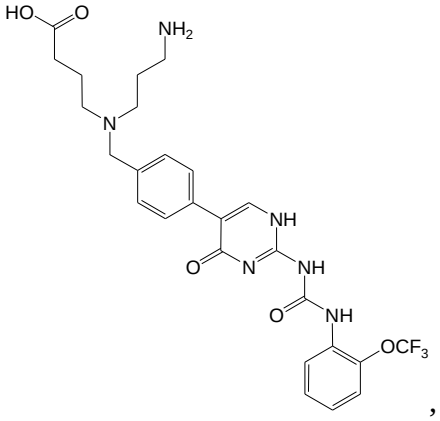

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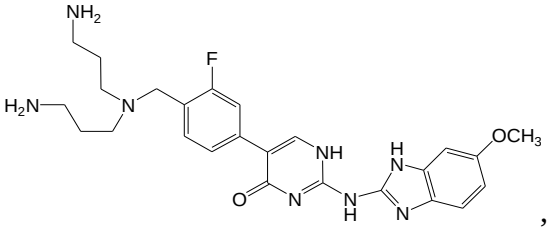

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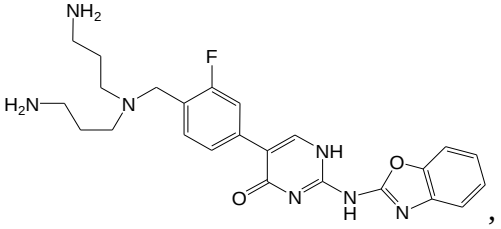

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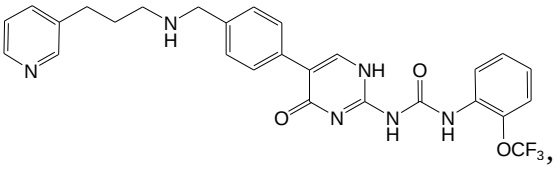

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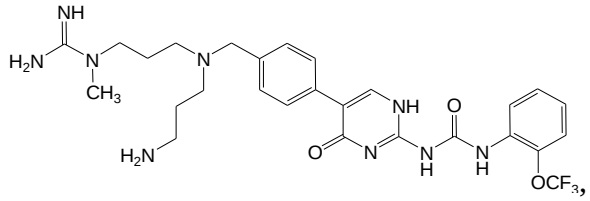

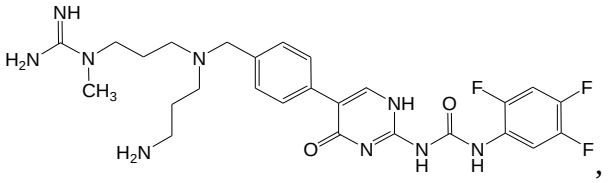

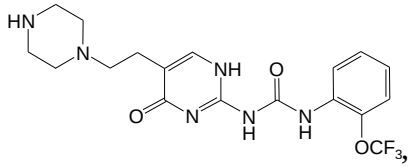

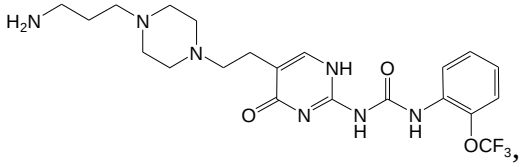

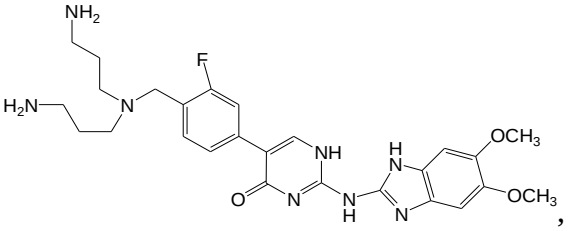

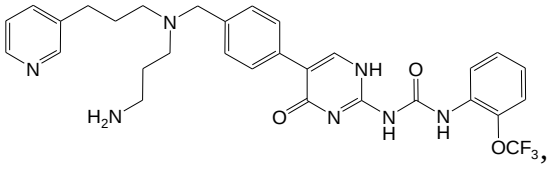

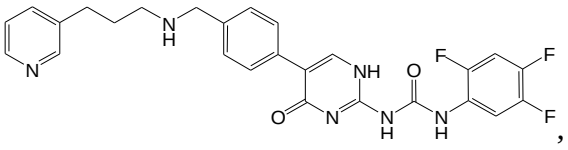

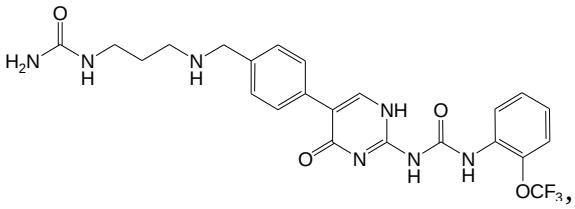

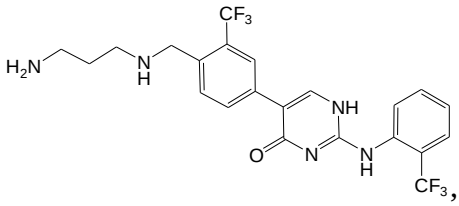

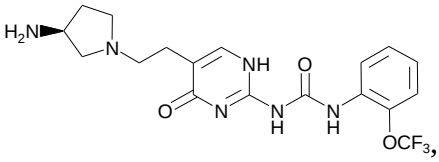

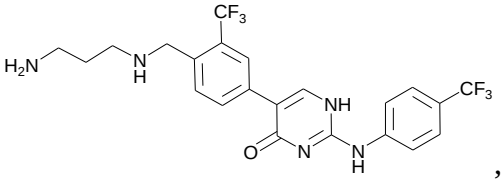

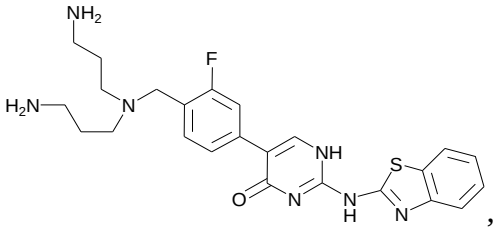

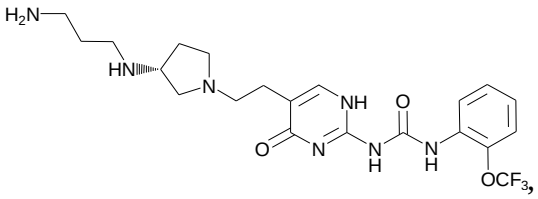

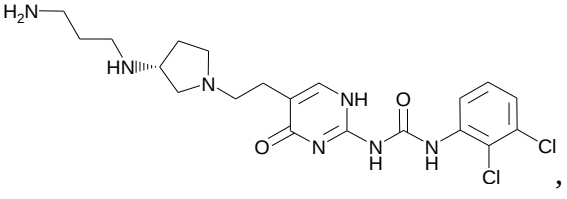

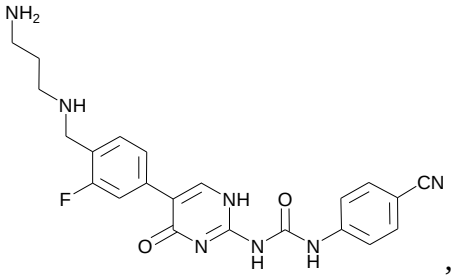

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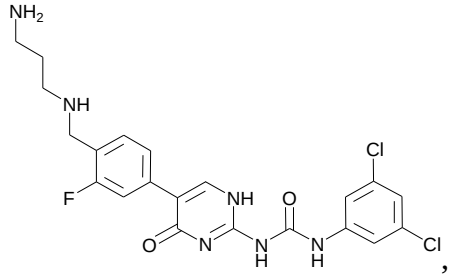

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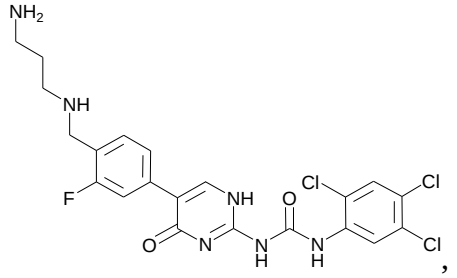

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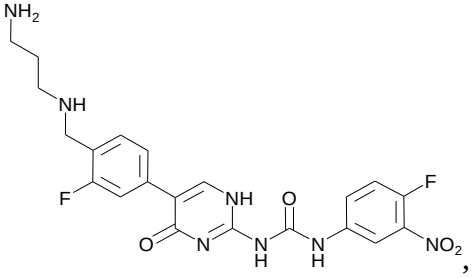

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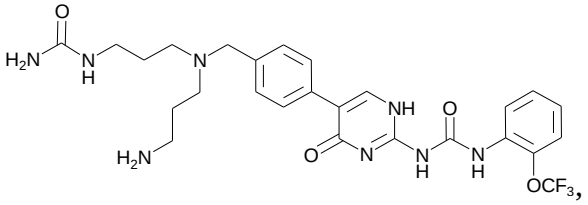

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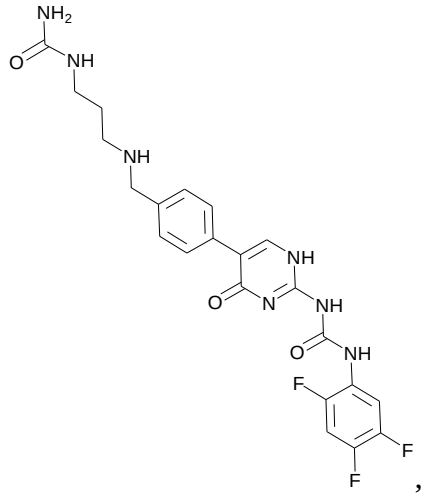

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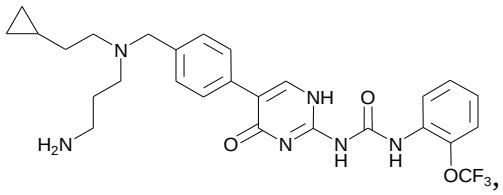

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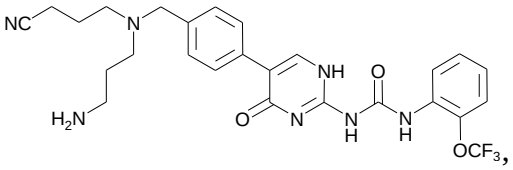

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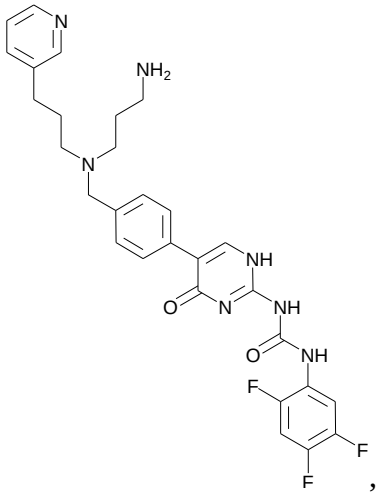

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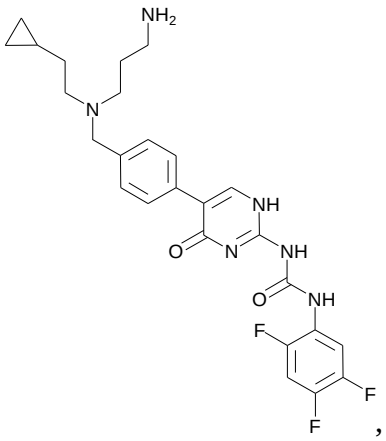

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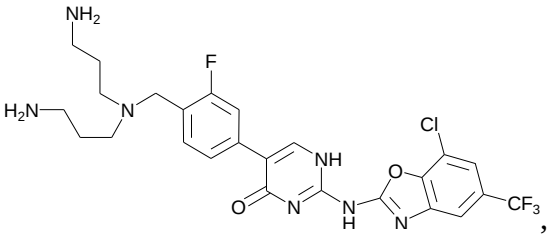

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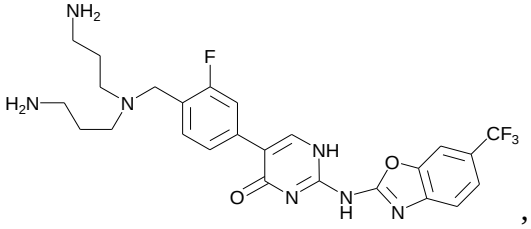

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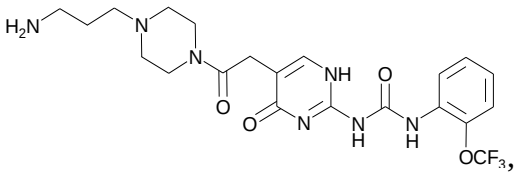

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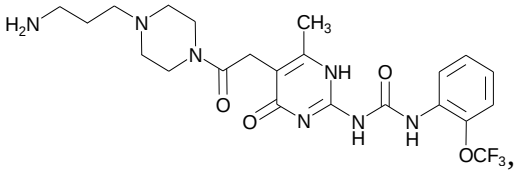

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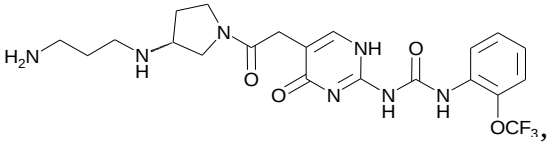

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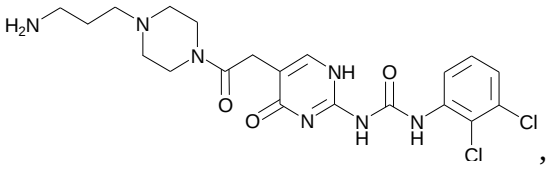
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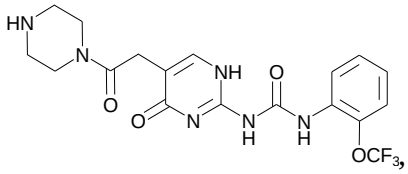
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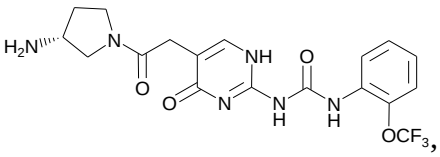
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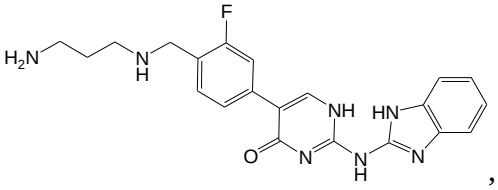
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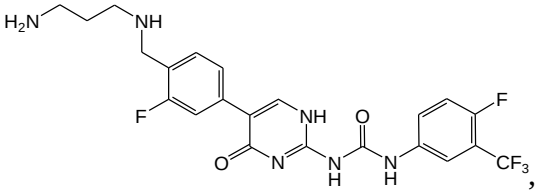
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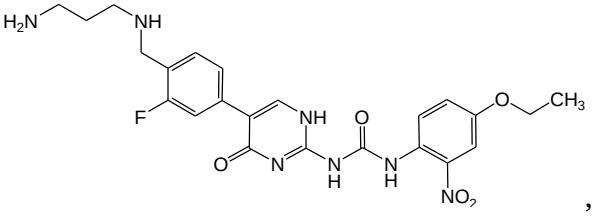
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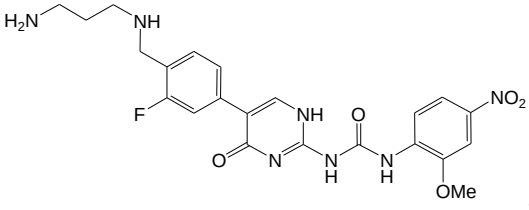
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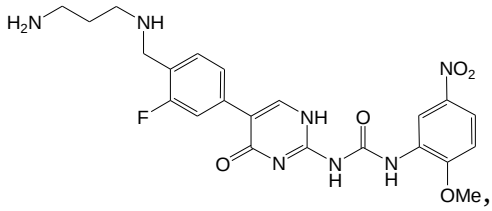

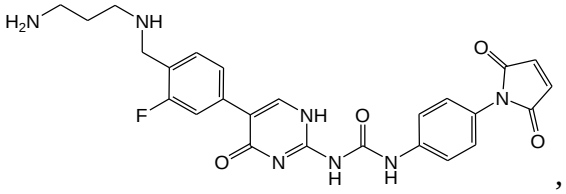

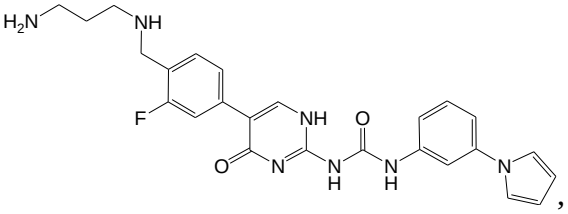

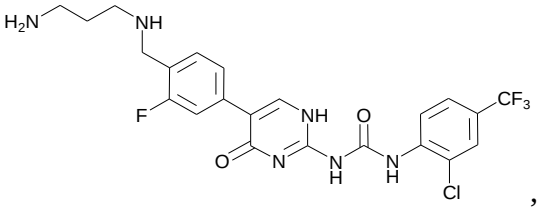

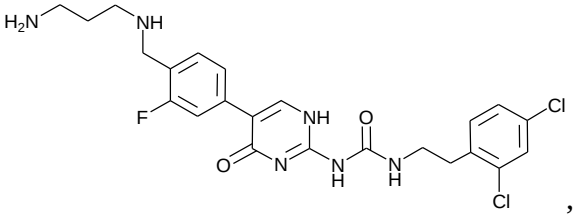

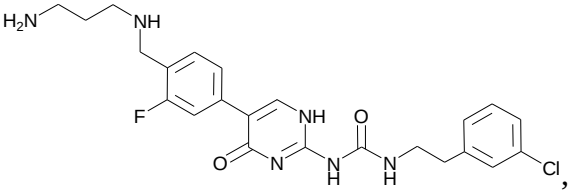

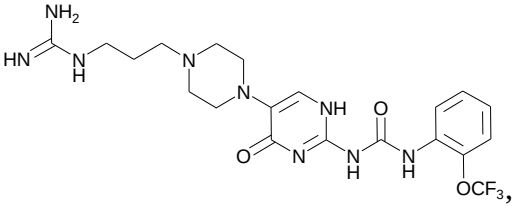

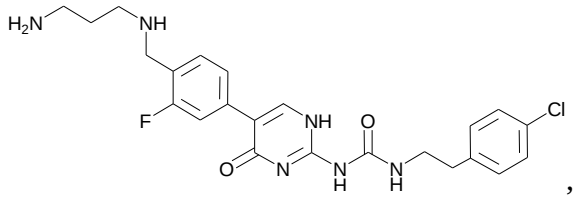

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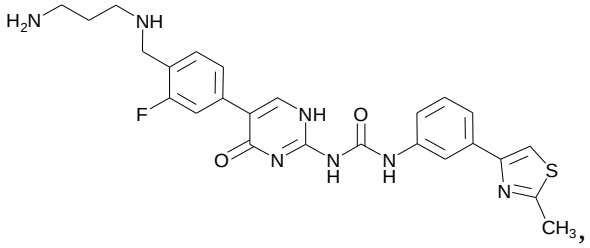

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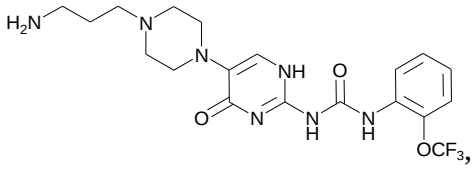

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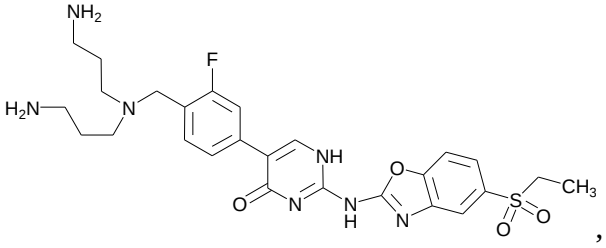

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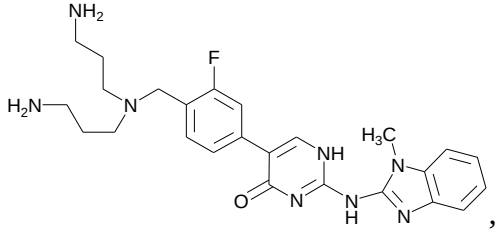

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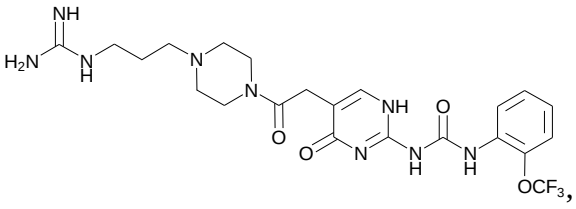

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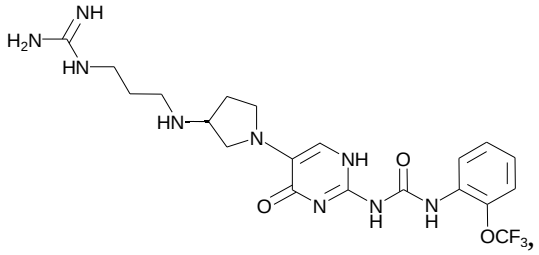

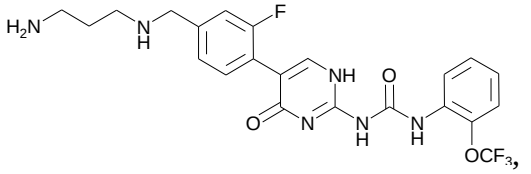

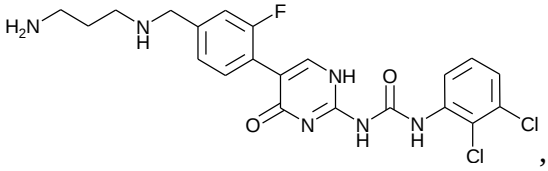

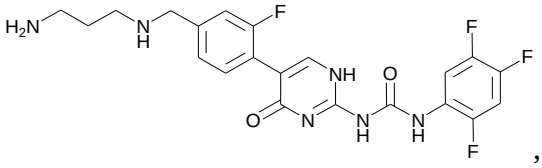

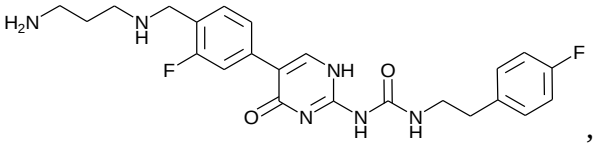

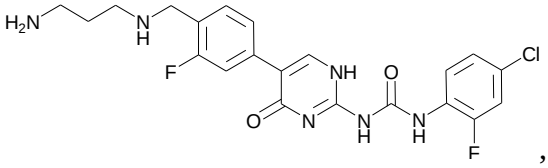

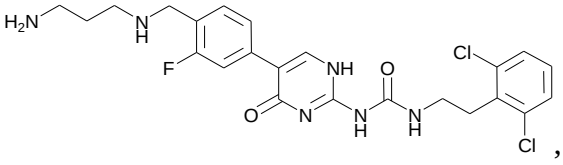

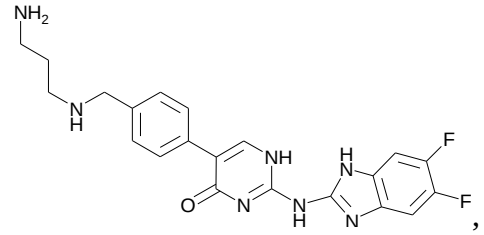

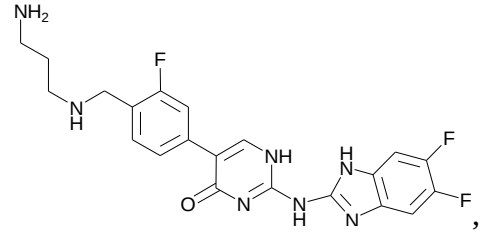

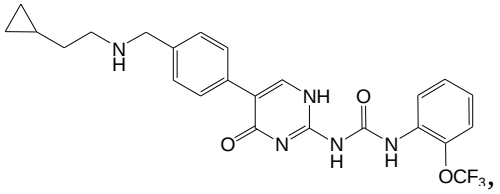

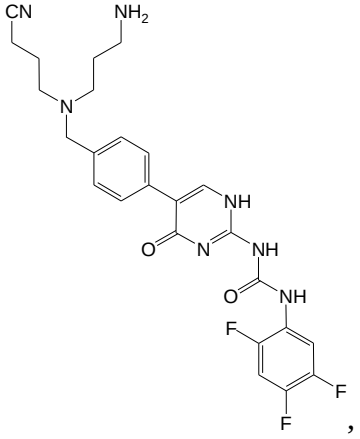

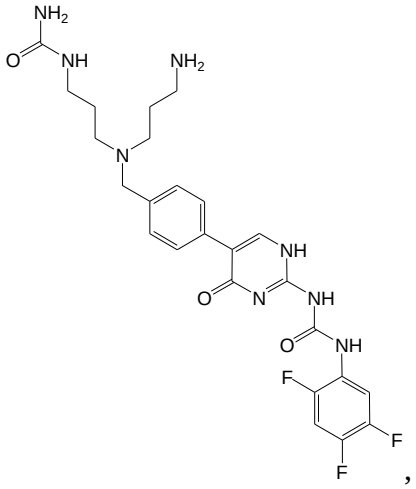

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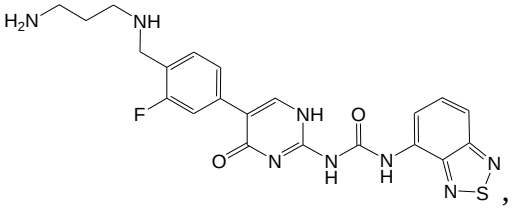

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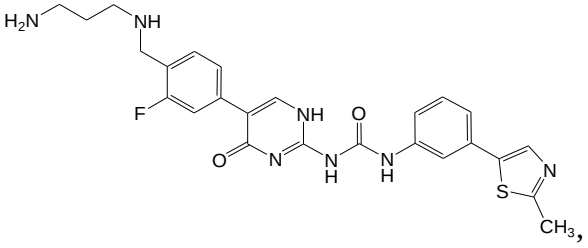

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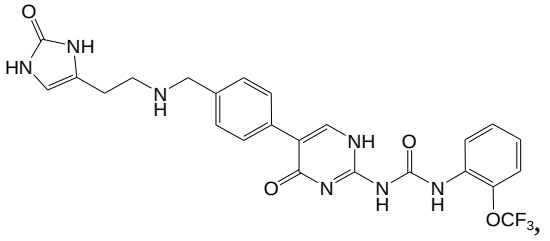

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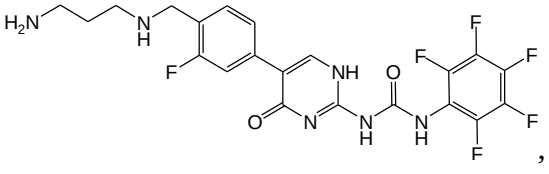

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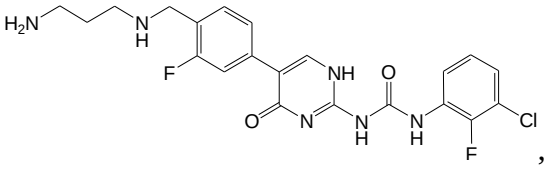

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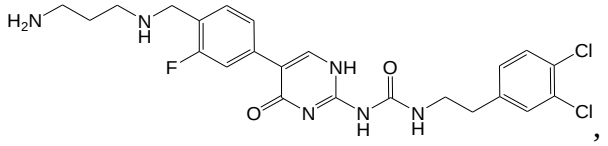
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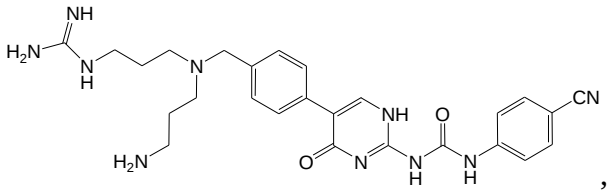
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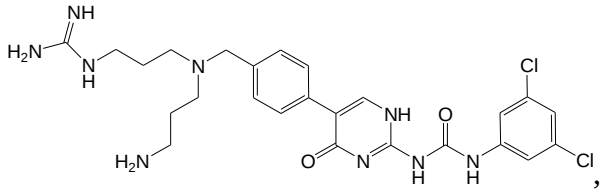
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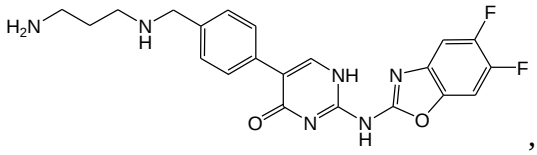
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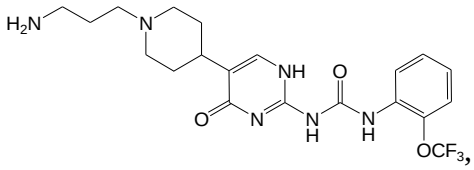
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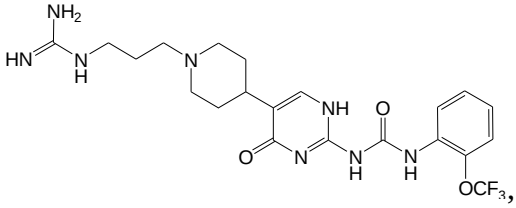
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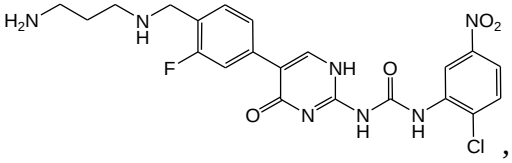
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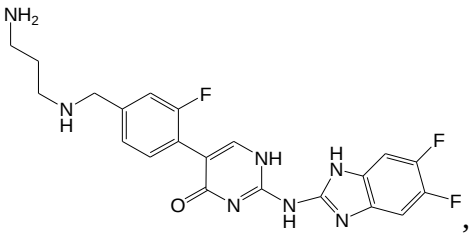
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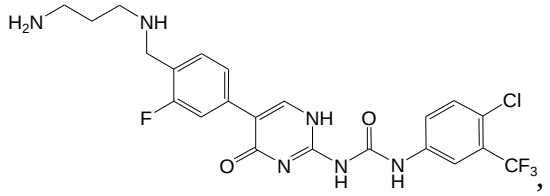
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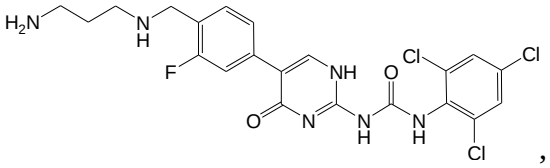
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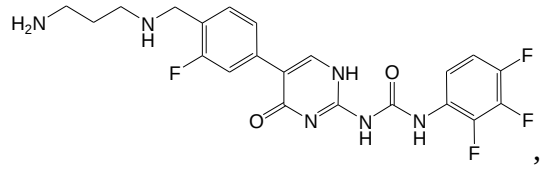
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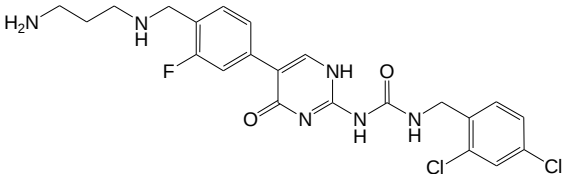

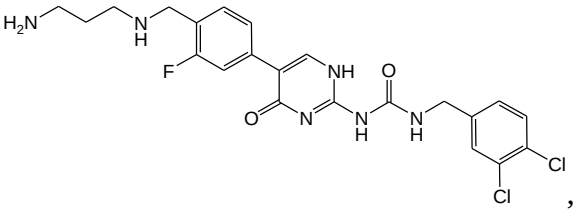
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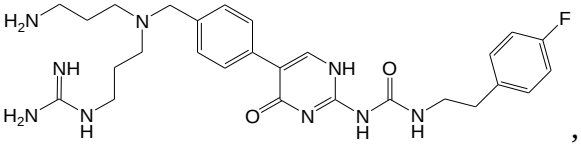
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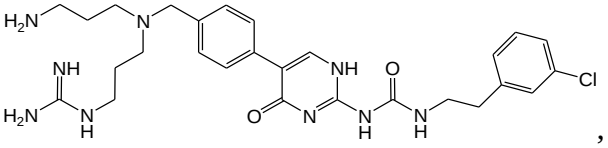
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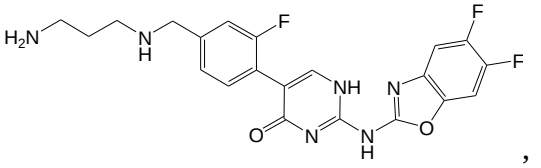
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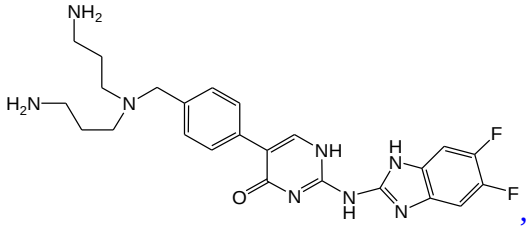
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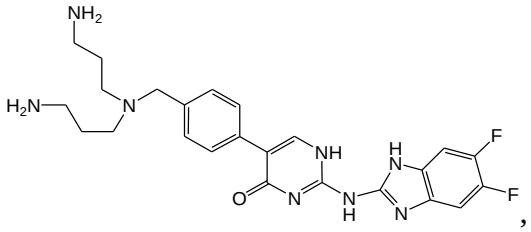
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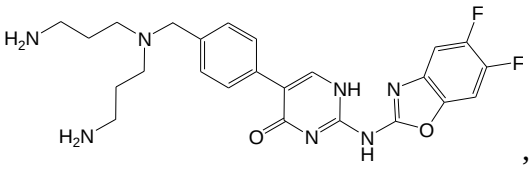
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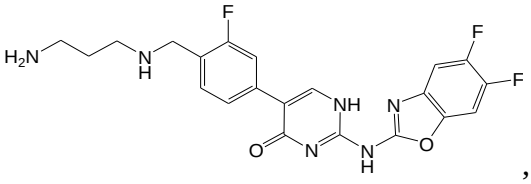
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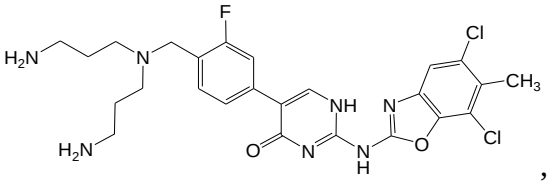
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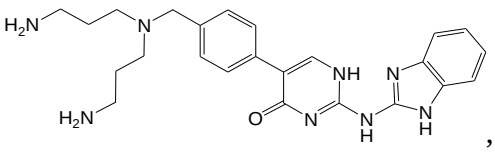
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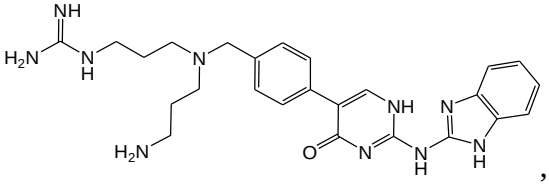
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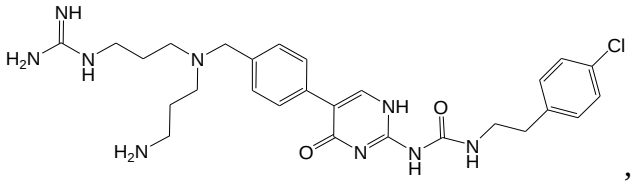
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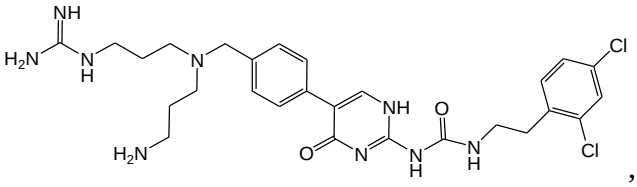
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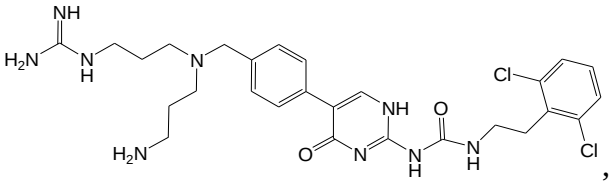
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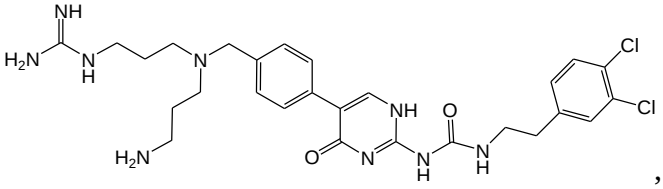
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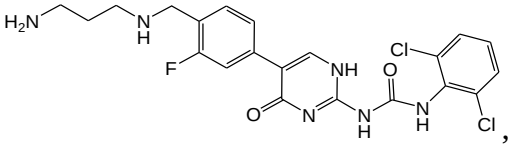
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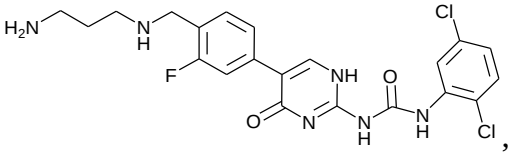
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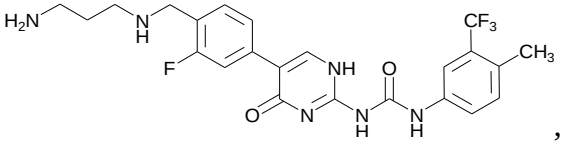
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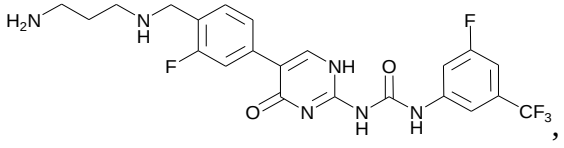
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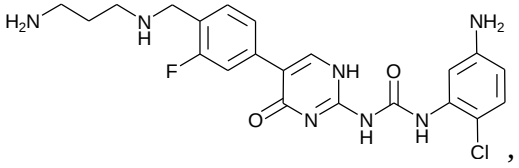

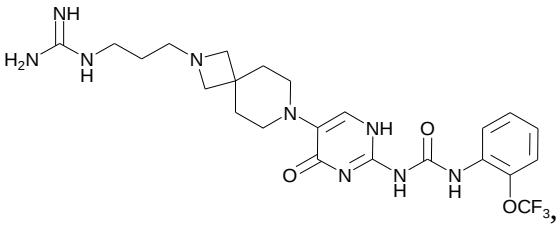

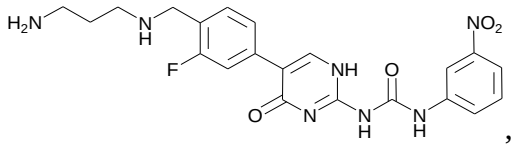

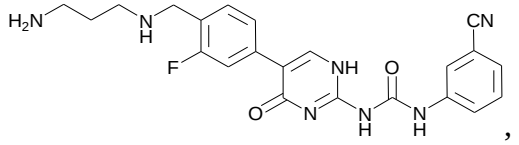

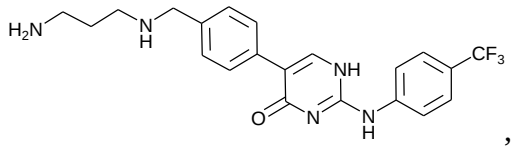

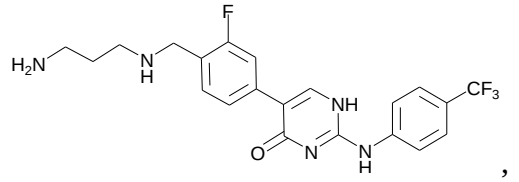

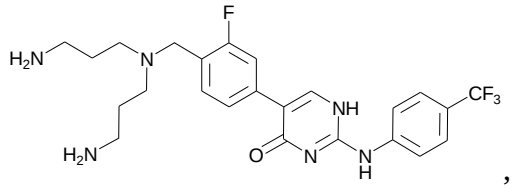

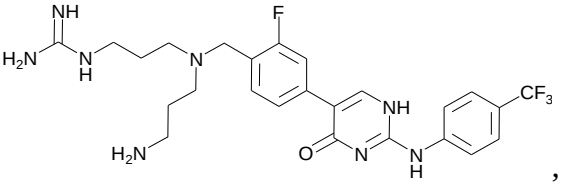

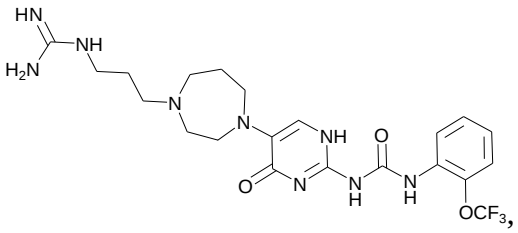

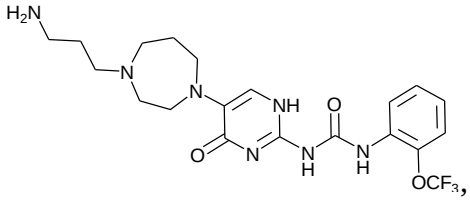

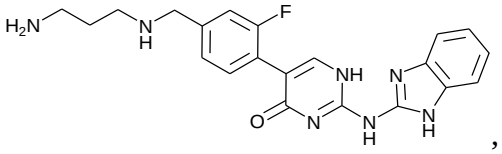

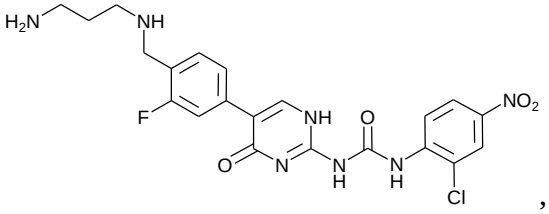

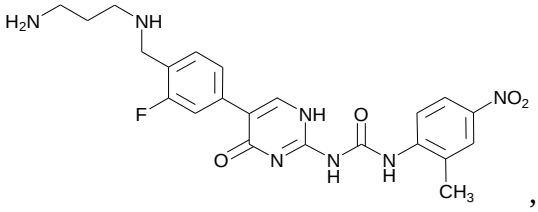

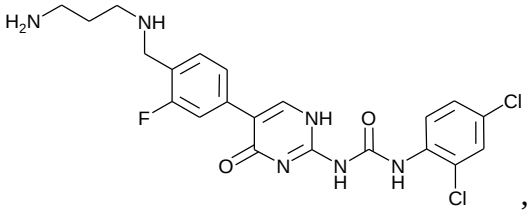

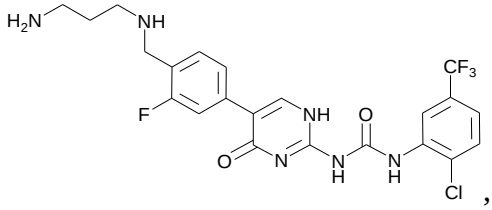

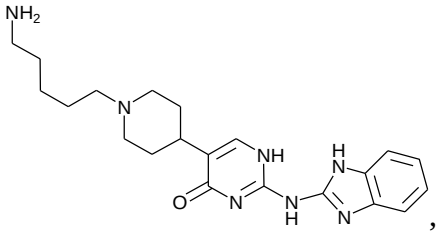

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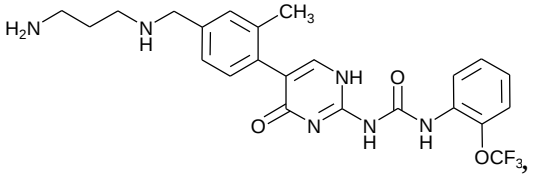

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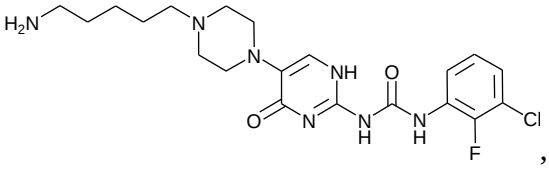

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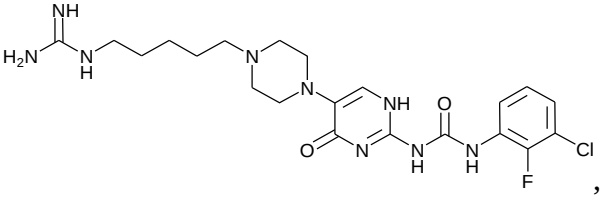

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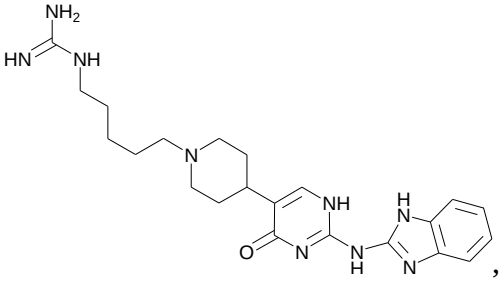

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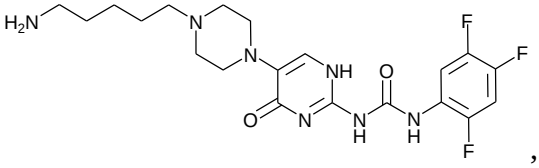

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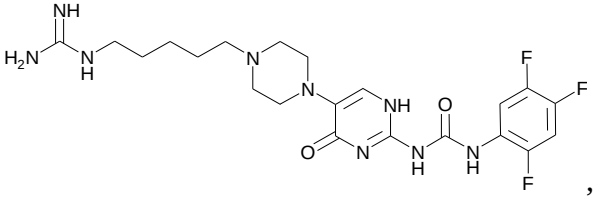

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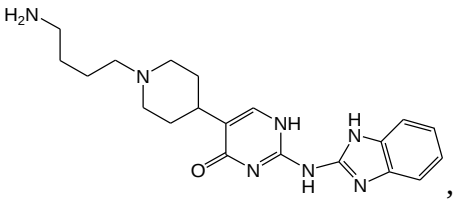

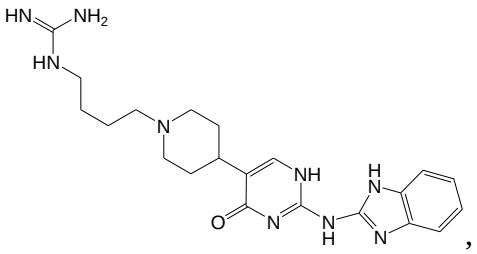

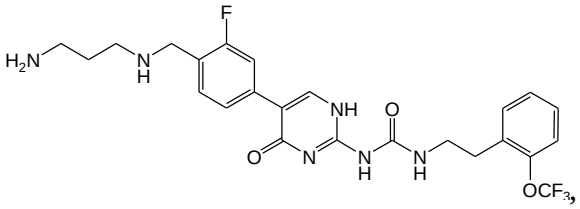

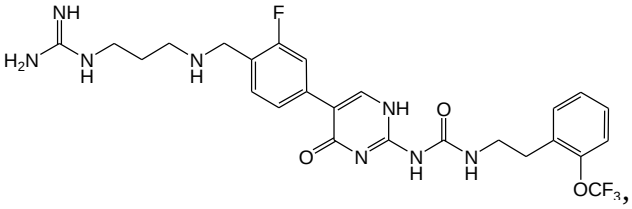

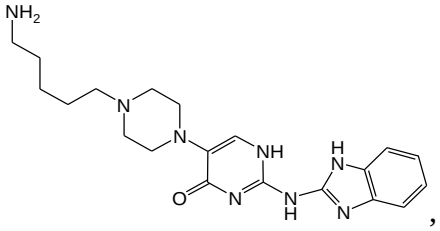

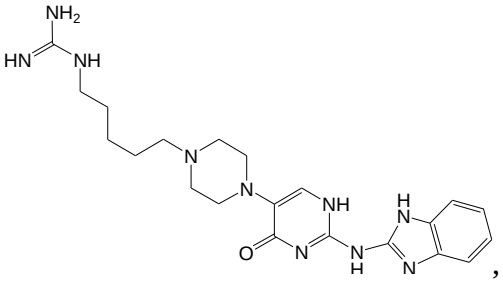

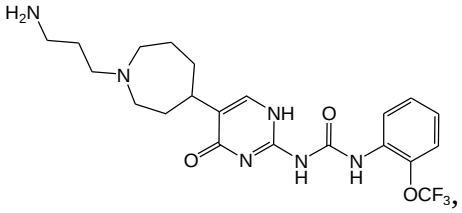

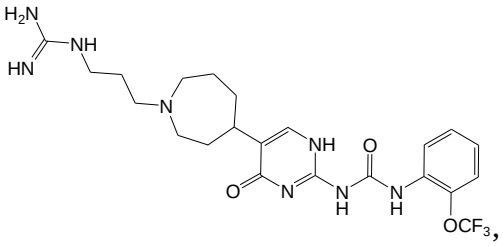

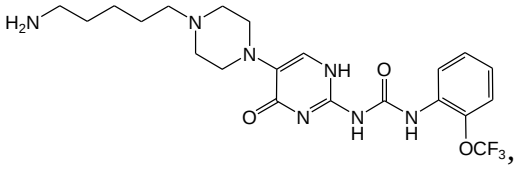

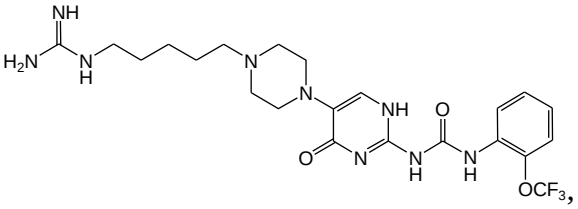

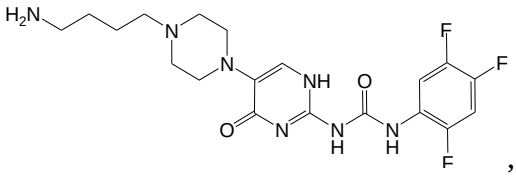

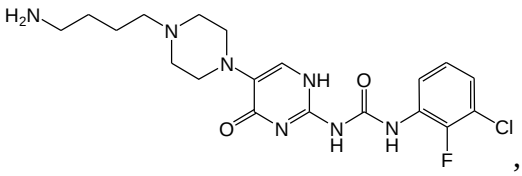

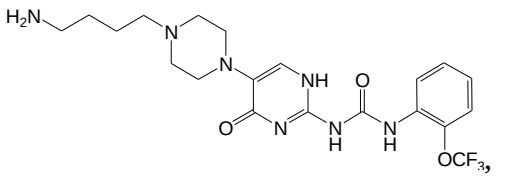

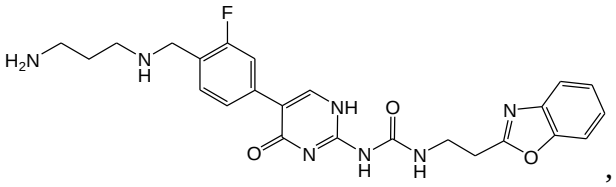

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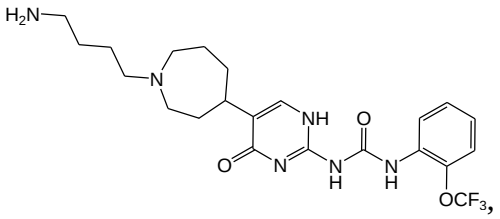

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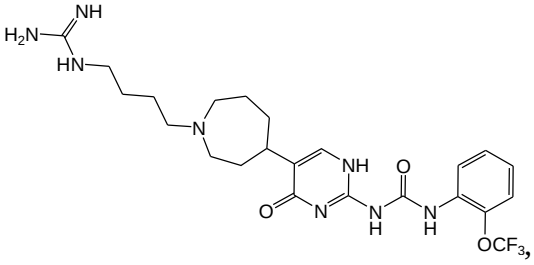

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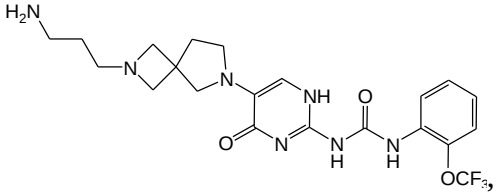

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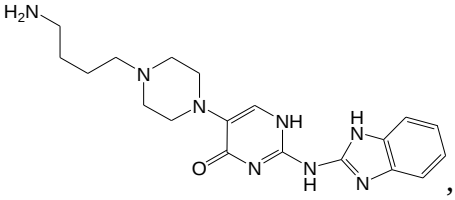

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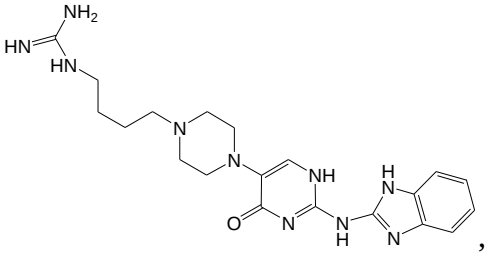

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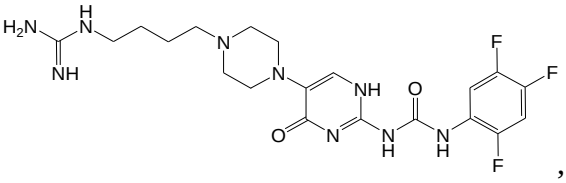

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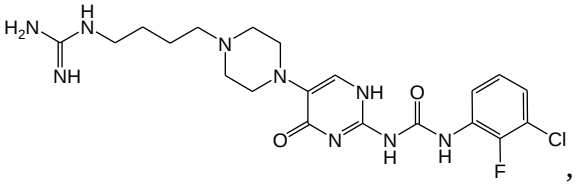

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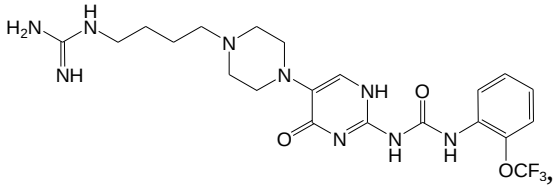

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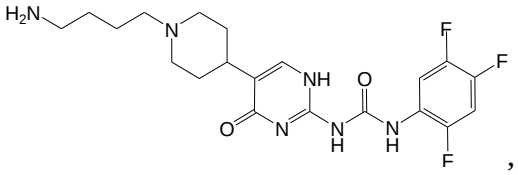

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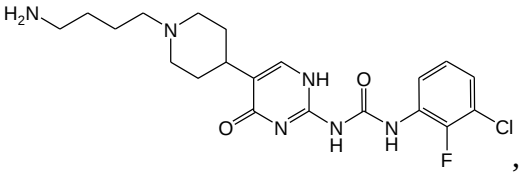

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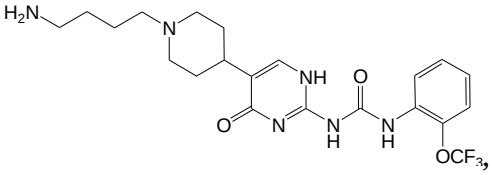

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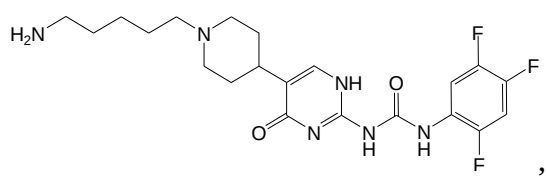

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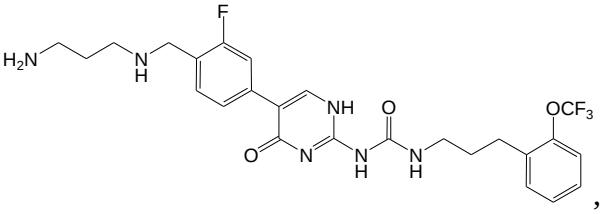

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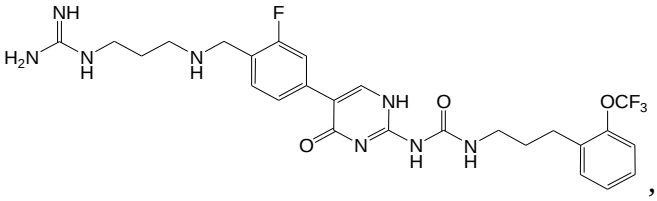

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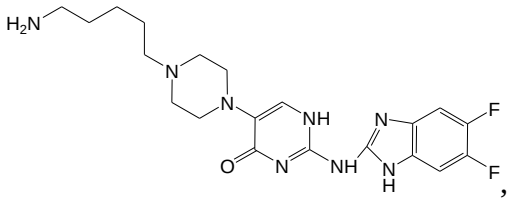

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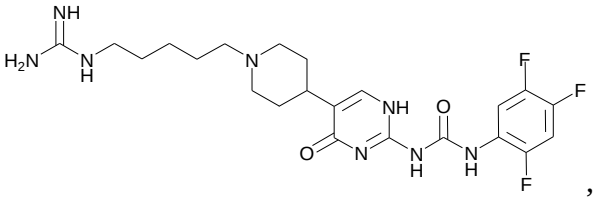

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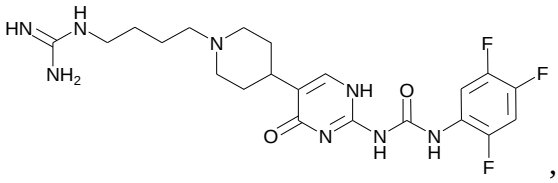

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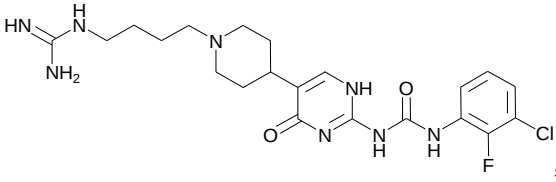

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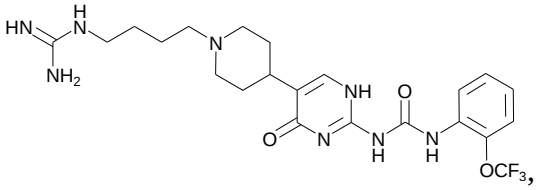

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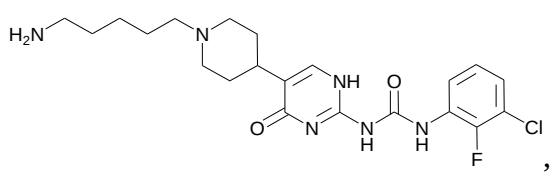

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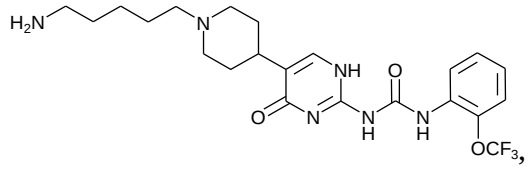

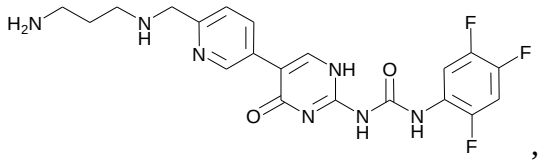

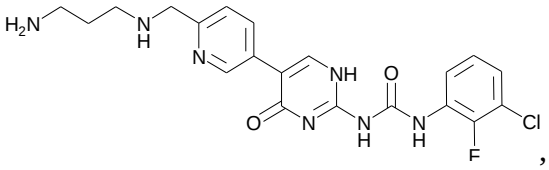

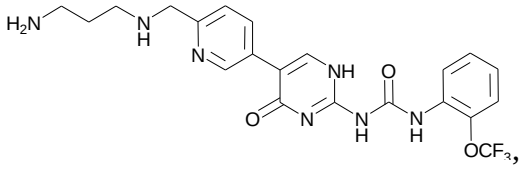

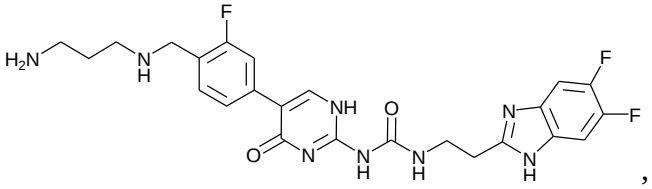

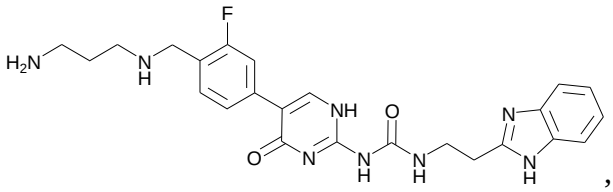

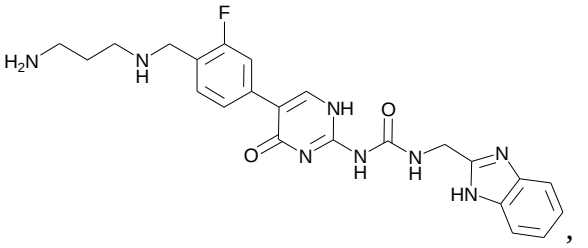

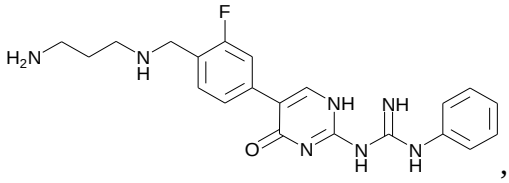

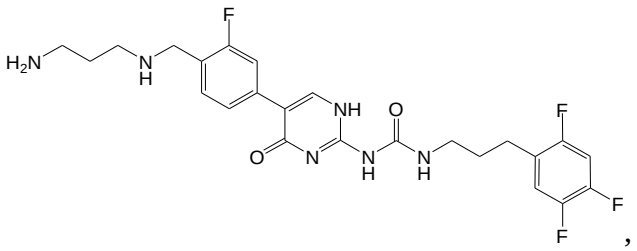

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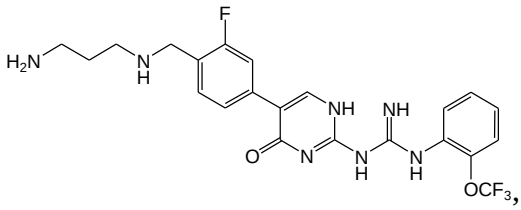

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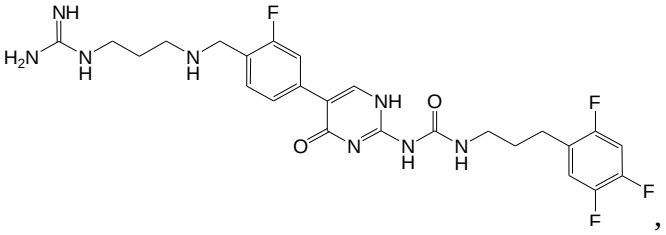

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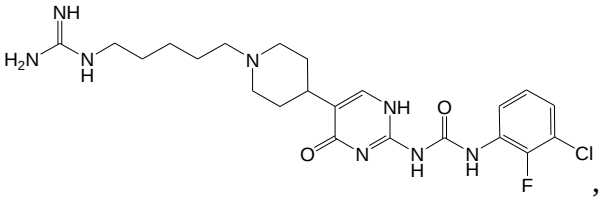

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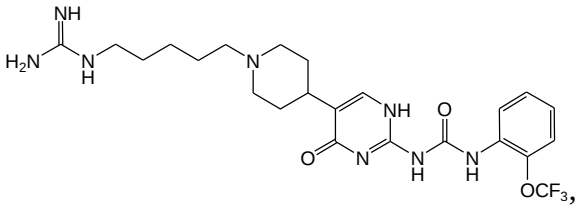

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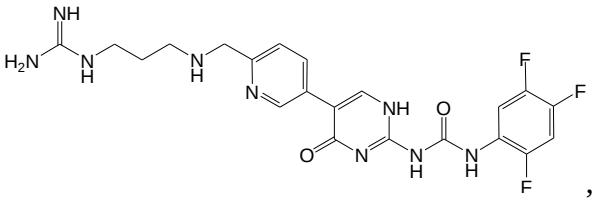

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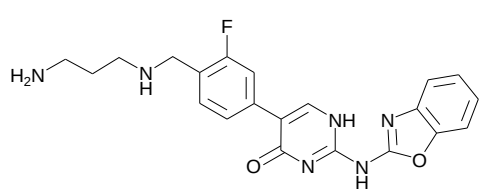

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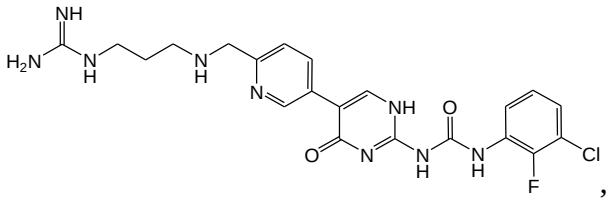

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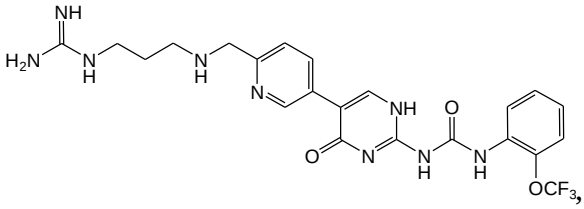

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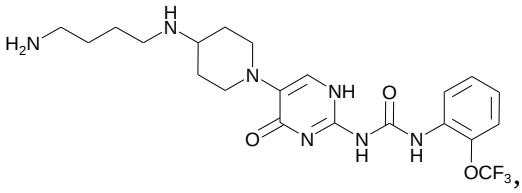

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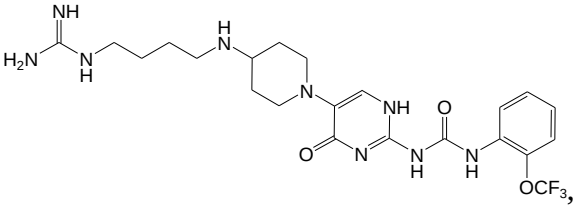

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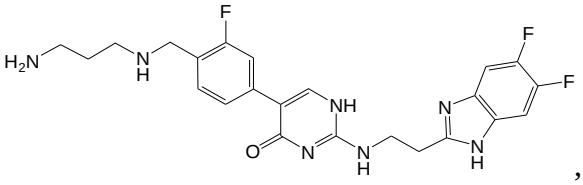

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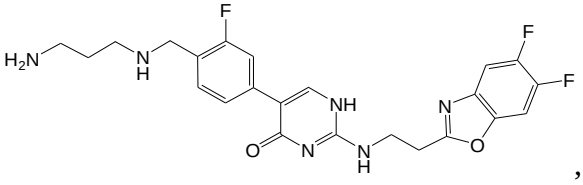

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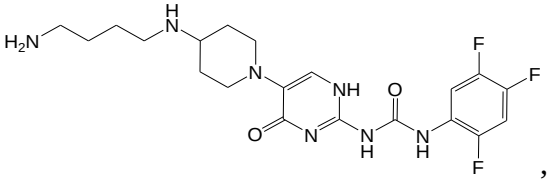

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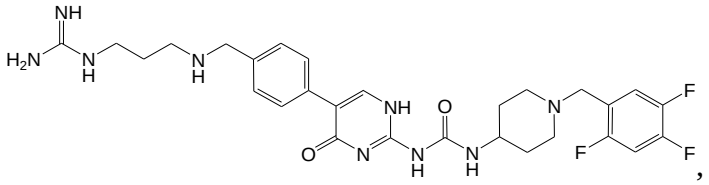

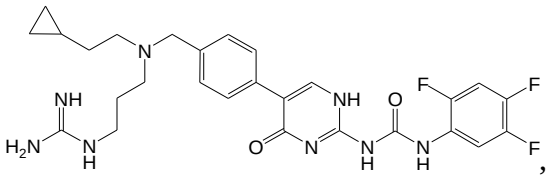

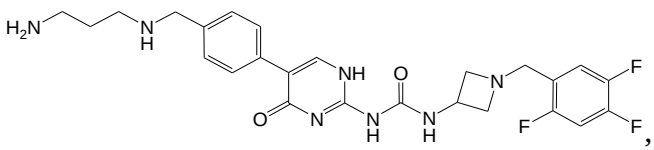

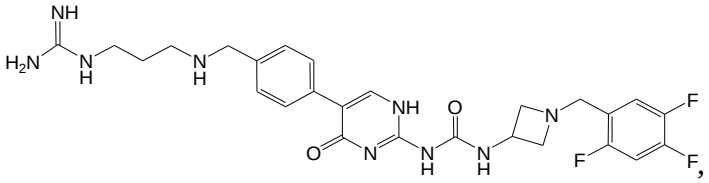

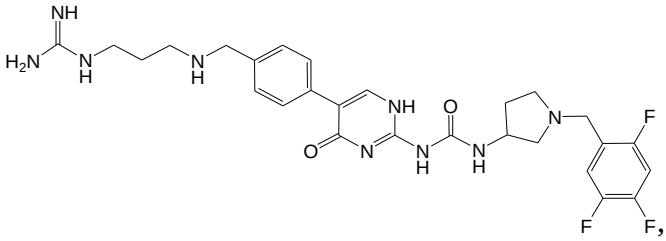

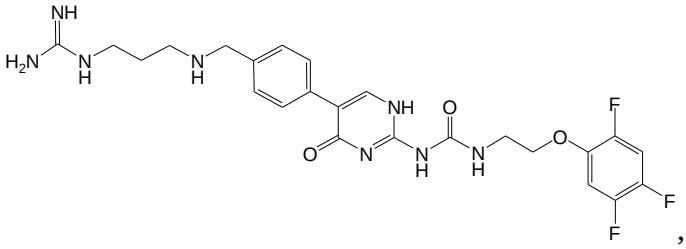

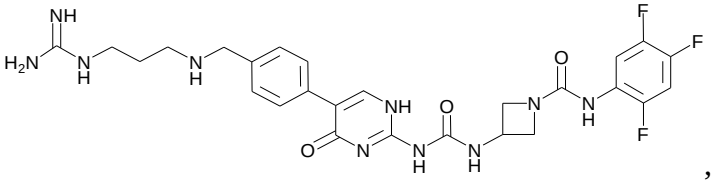

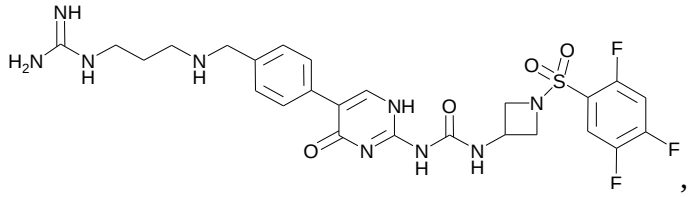

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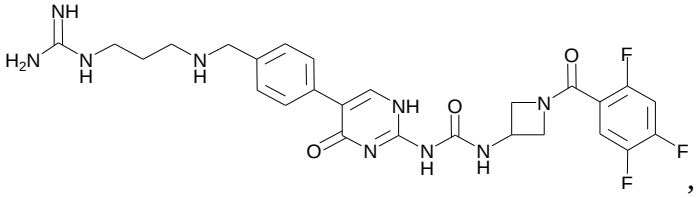

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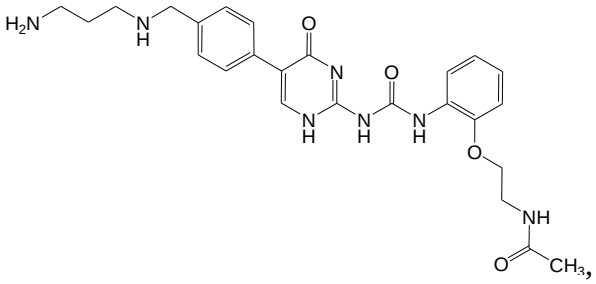

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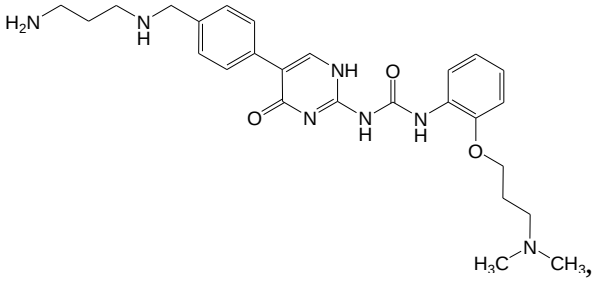

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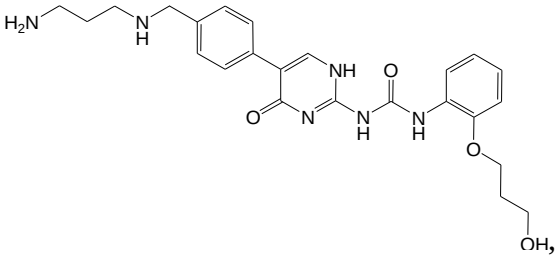

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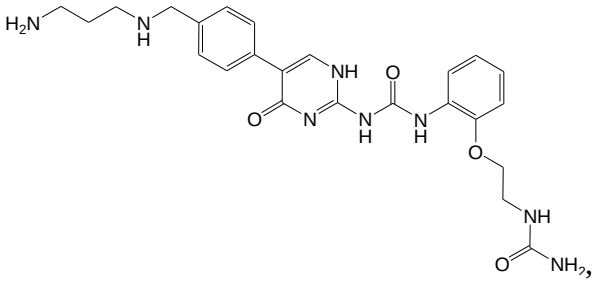

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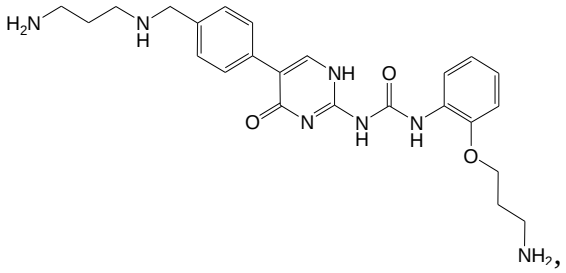

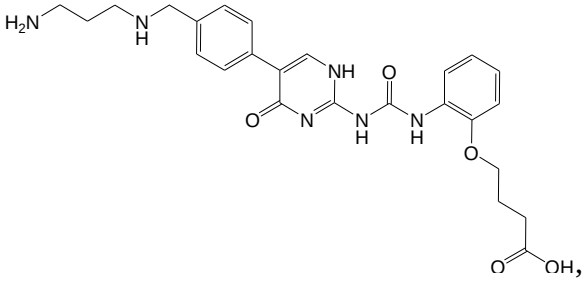

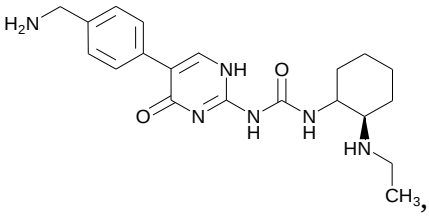

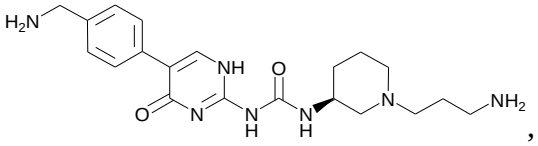

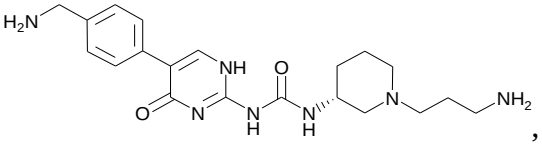

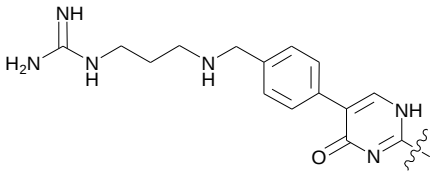

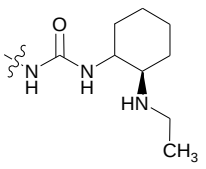

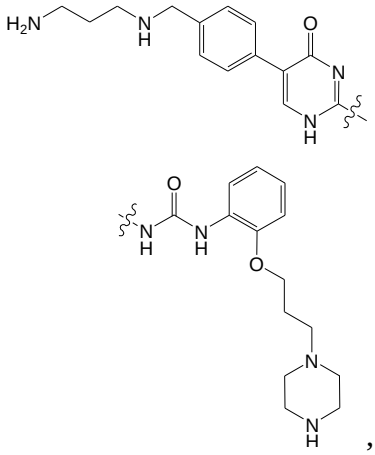

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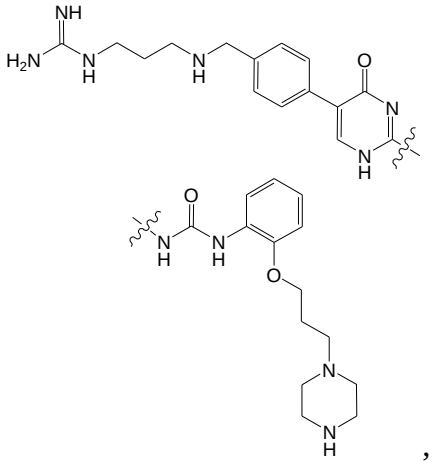

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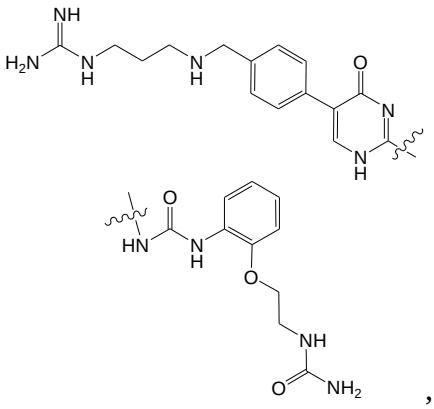

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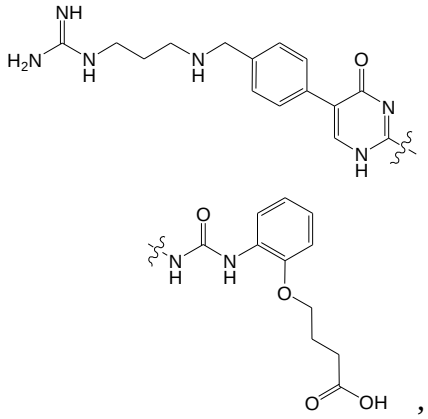

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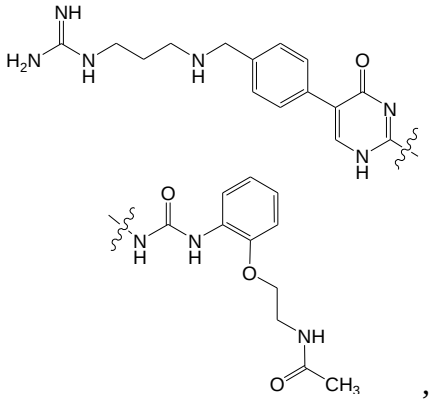

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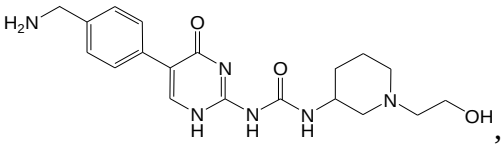

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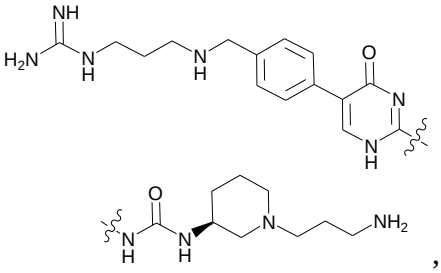

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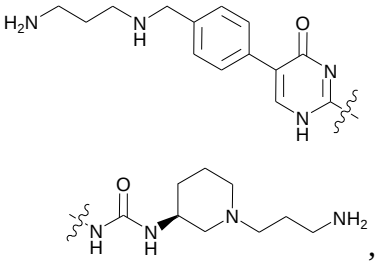

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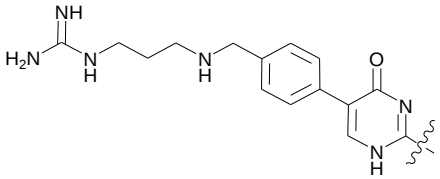

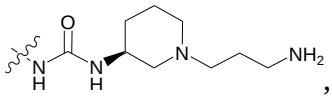

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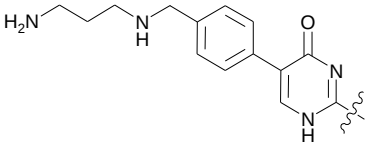

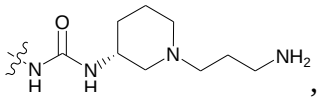

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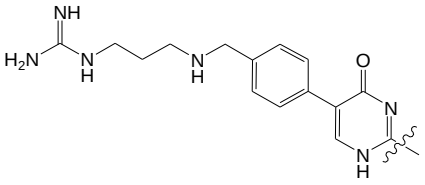

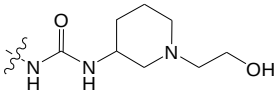

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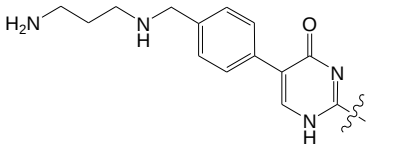

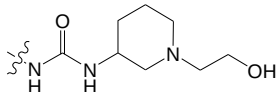

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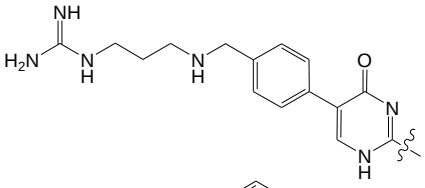

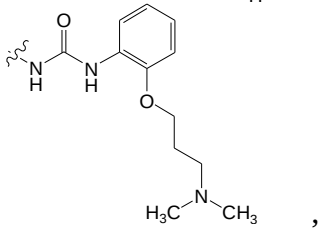

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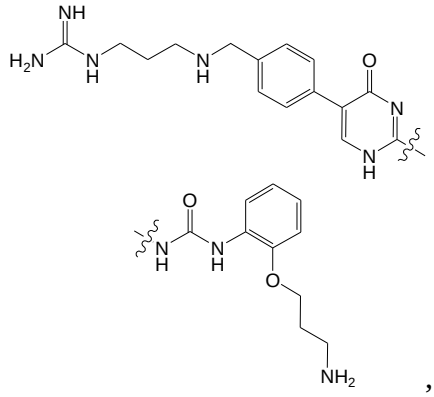
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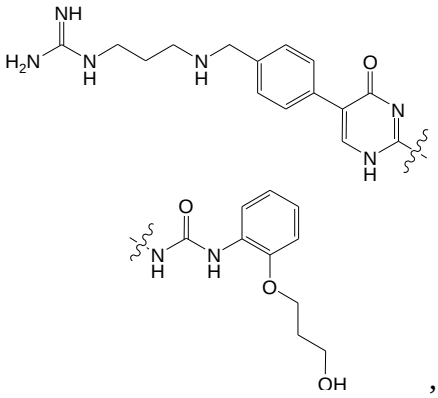
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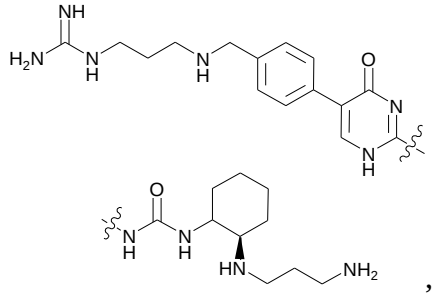
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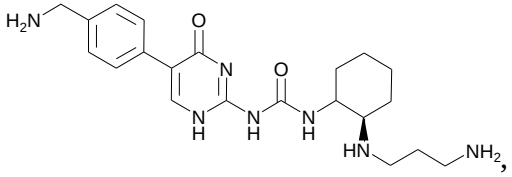
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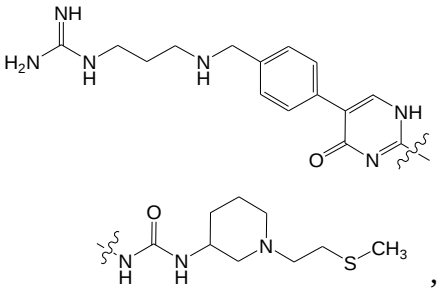
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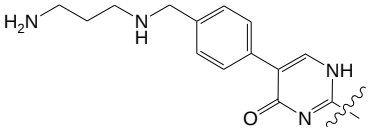

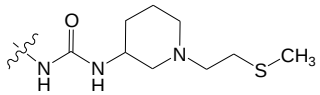

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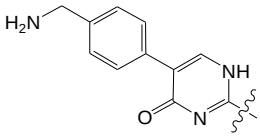

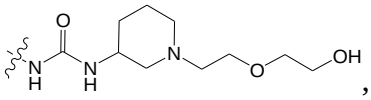

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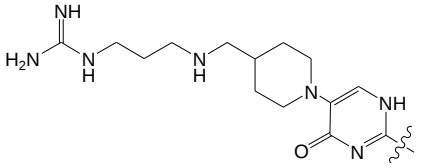

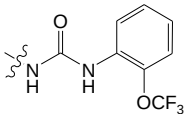

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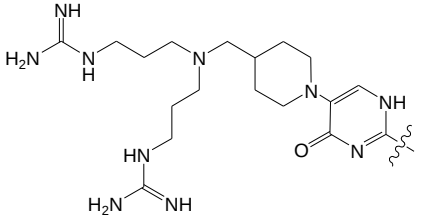

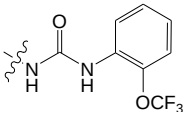

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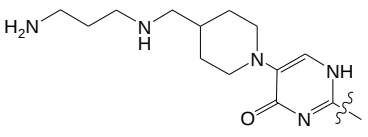

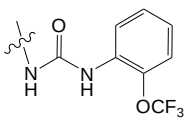

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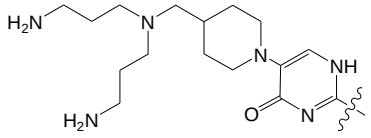

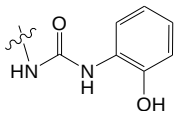
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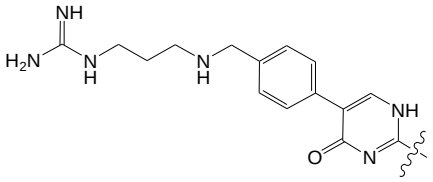

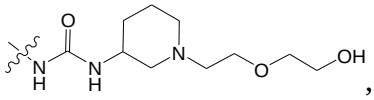
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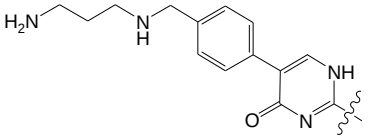

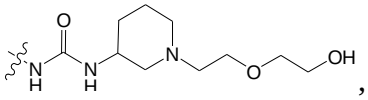
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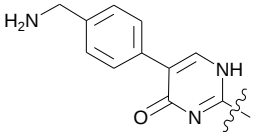

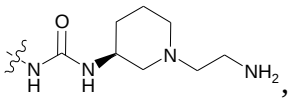
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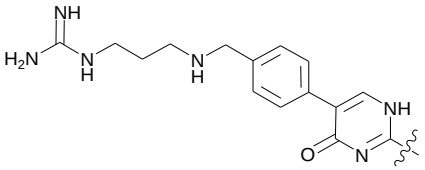

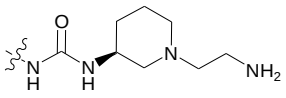
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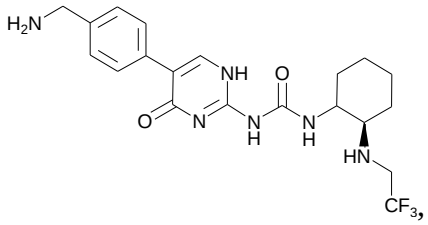

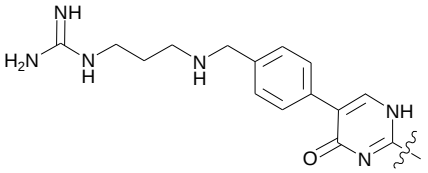

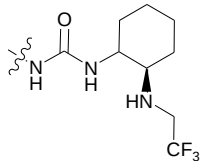

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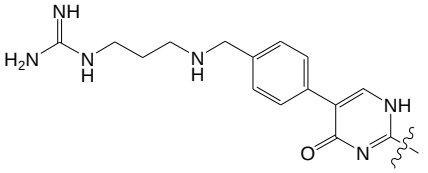

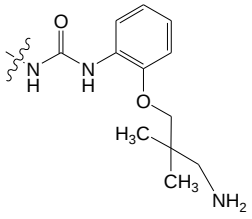

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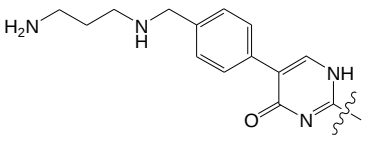

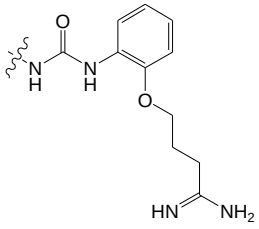

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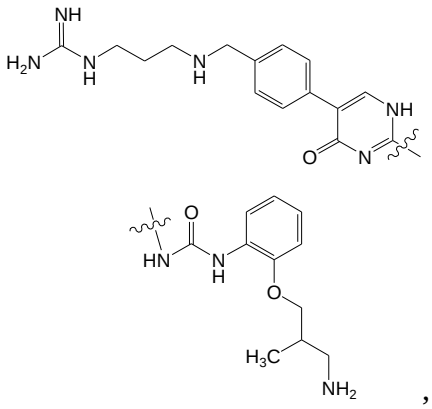

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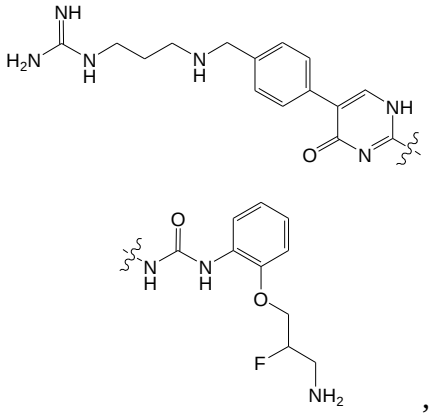

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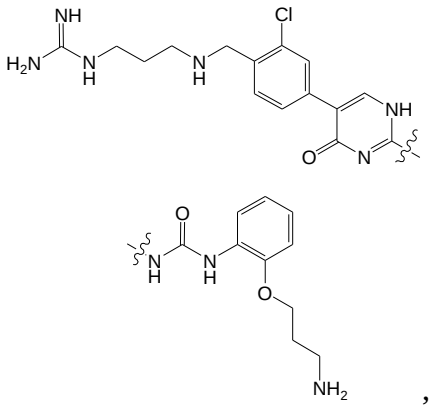

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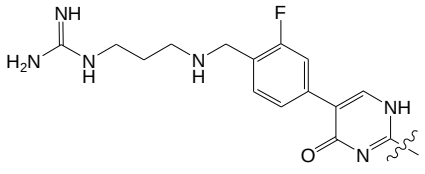

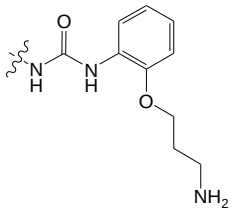

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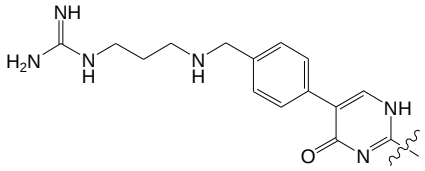

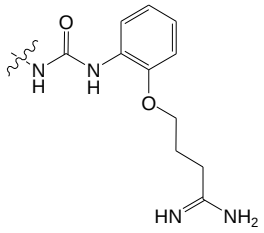

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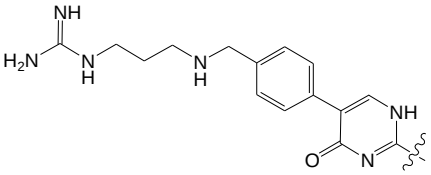

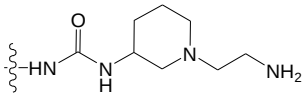

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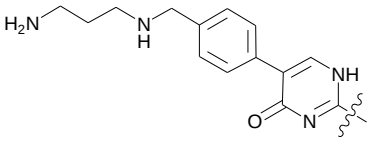

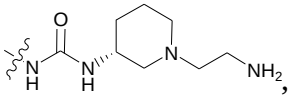

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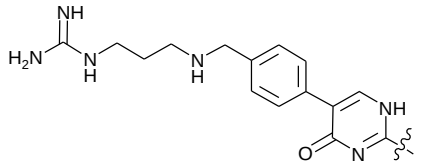

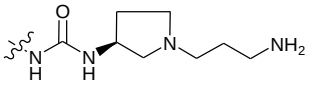

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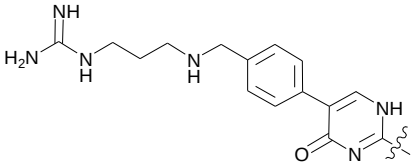

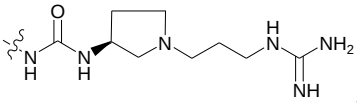

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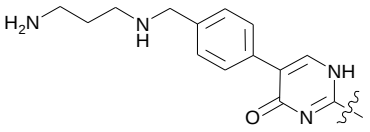

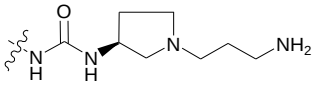

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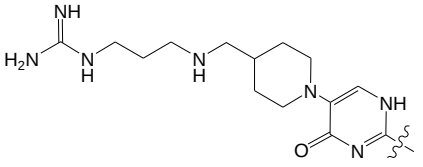

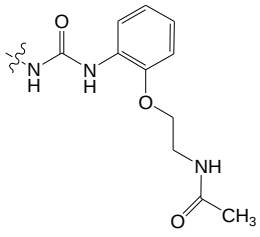

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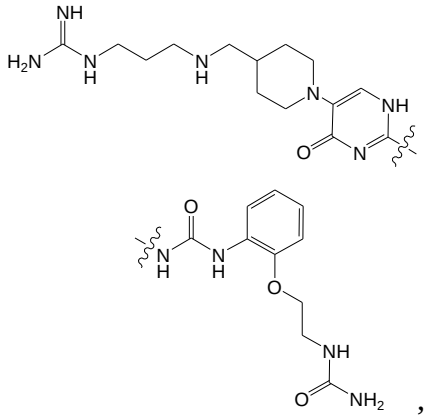

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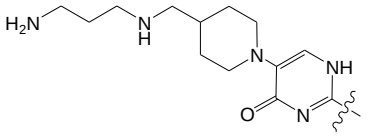
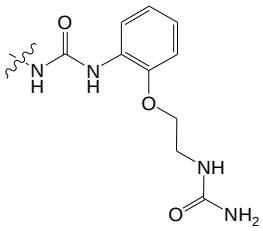
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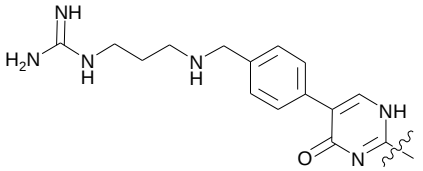
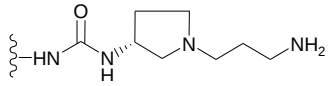
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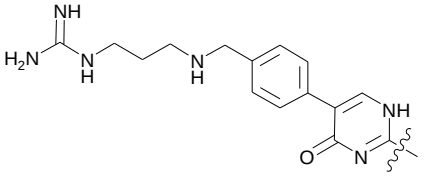
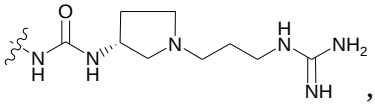
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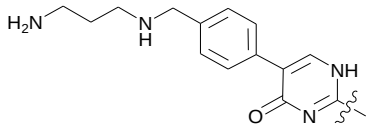

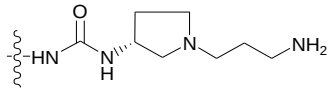

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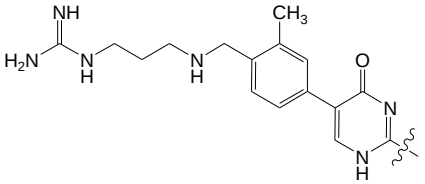

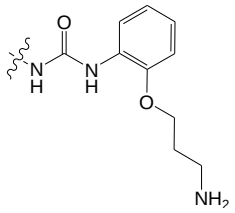

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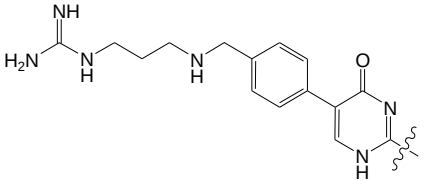

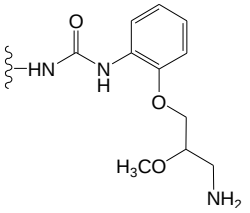

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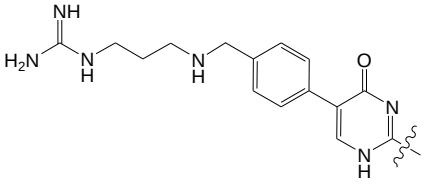

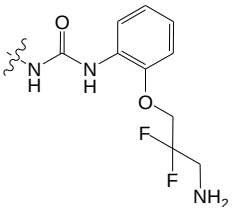

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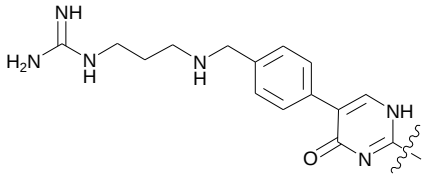

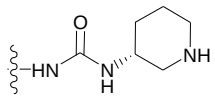

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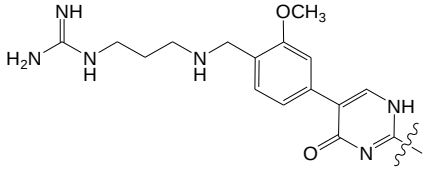

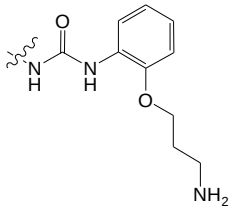

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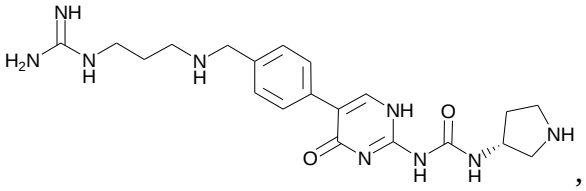

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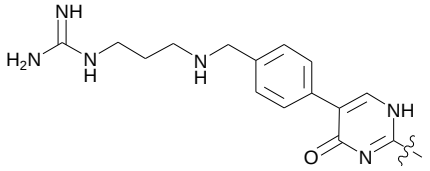

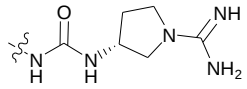

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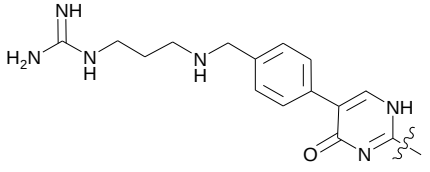

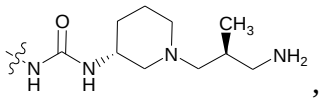

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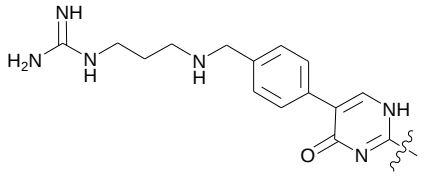
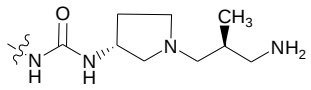
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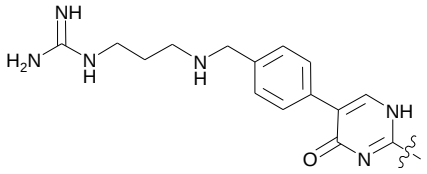
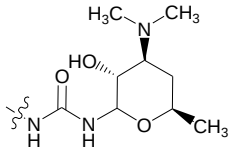
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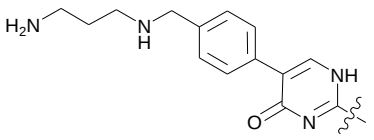
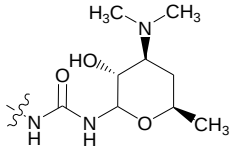
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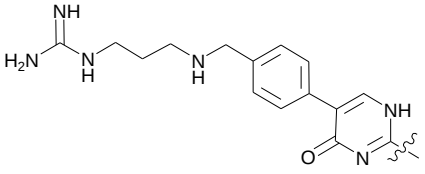
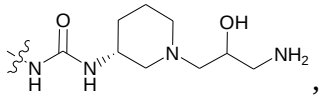
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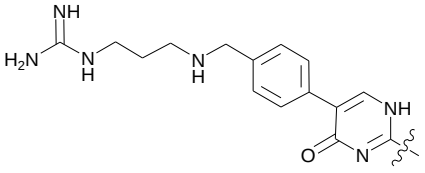
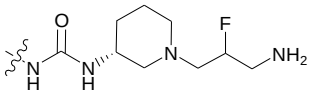
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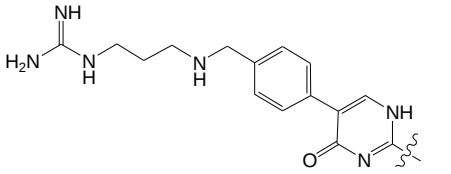
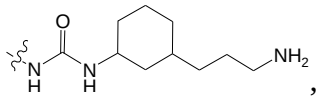
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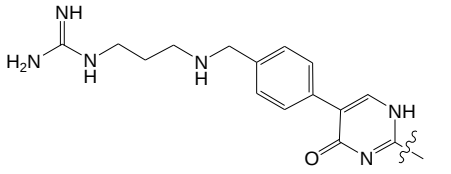
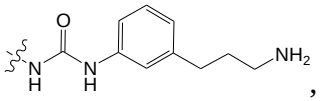
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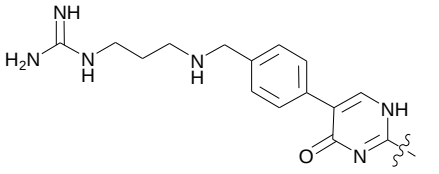
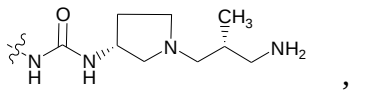
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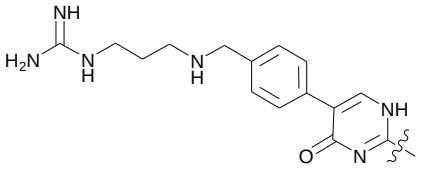
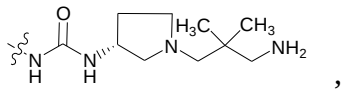
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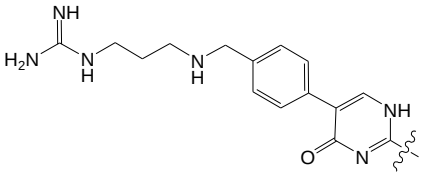
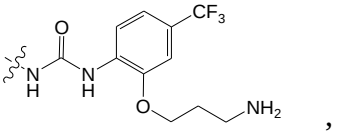
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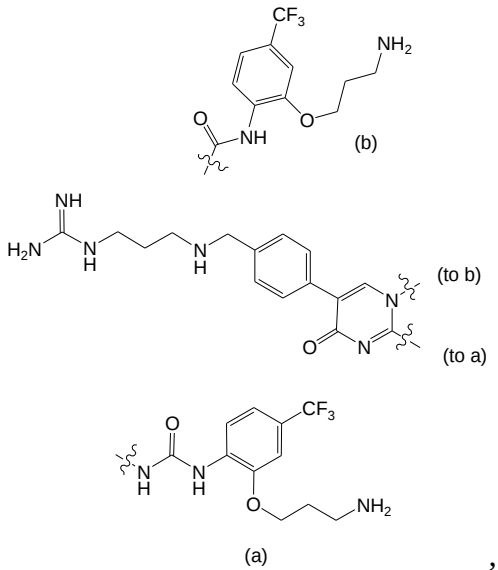
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NH2
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NH
(b)
NH
H2N
N
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N
H
(to b)
N
O
N
(to a)
CF3
O
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N
H
O
NH2
(a)
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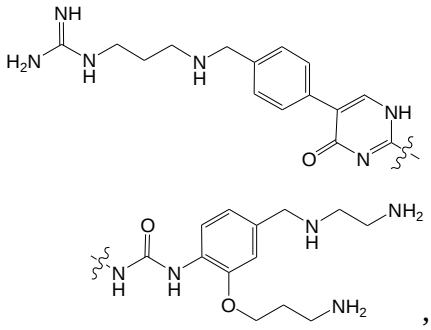
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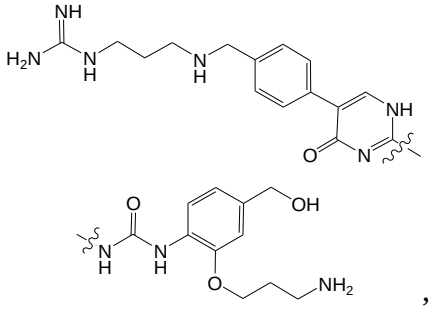
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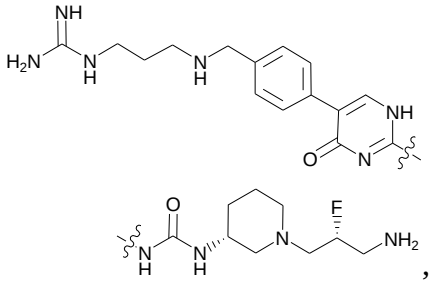
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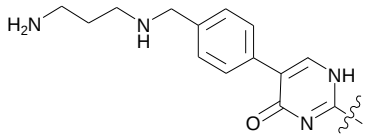

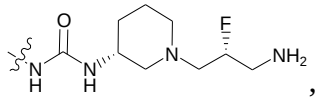

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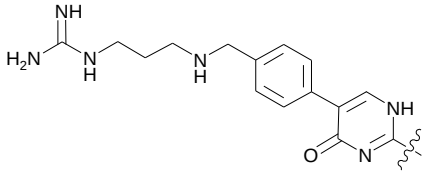

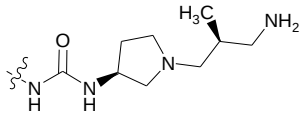

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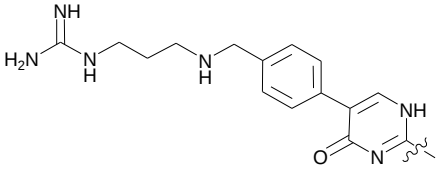

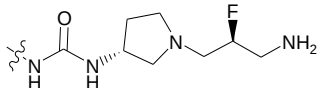

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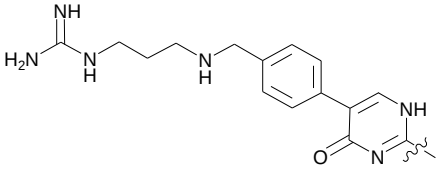

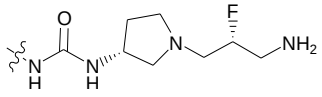

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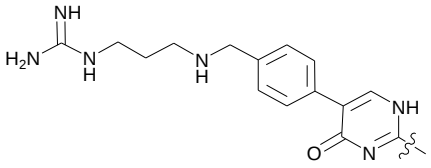

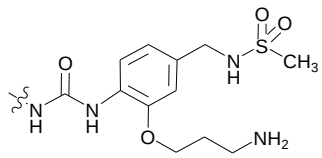

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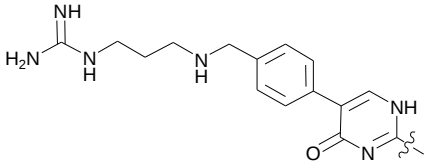

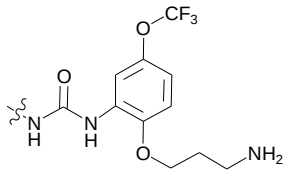

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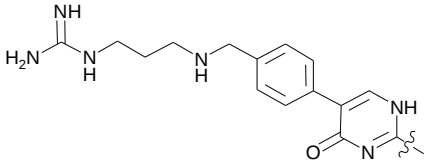

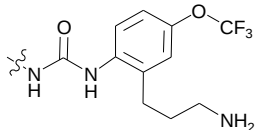

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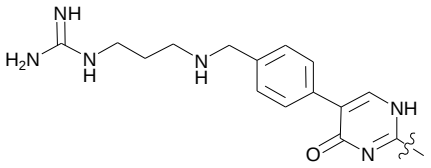

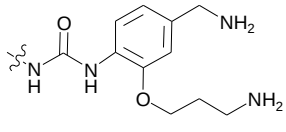

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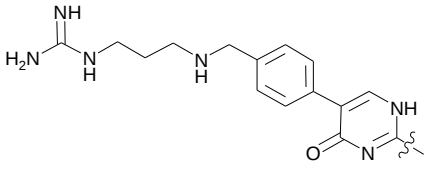

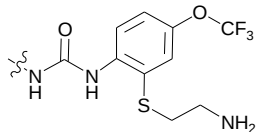

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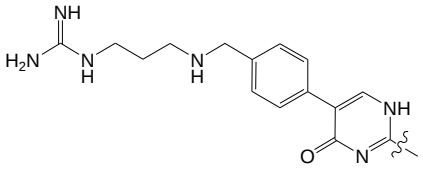

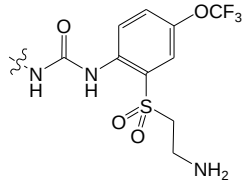

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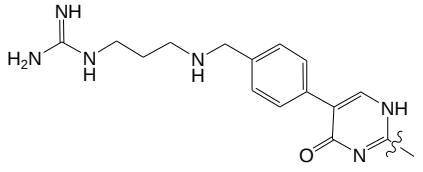

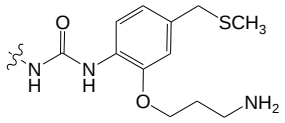

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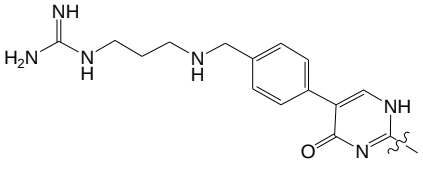

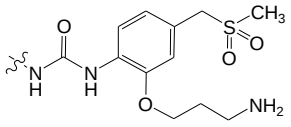

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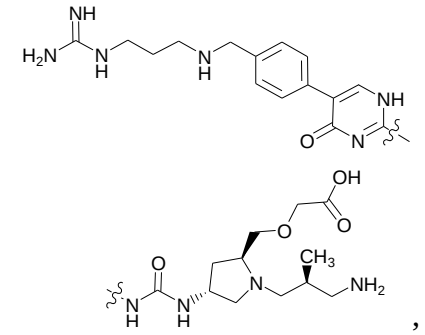

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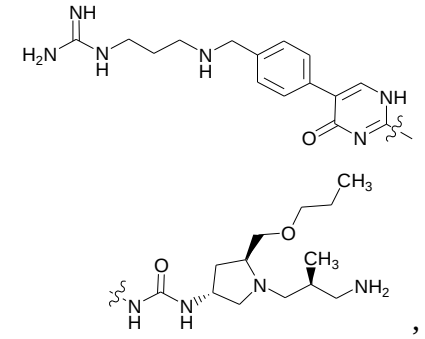

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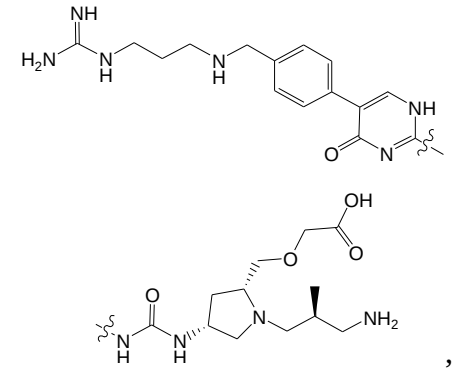

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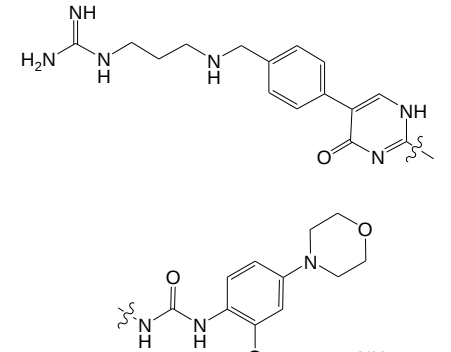

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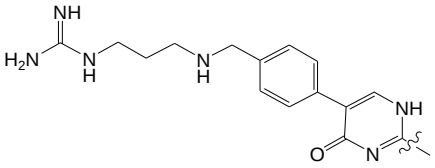

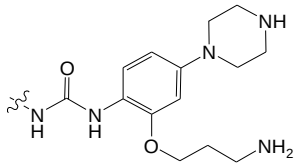

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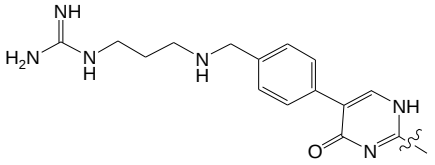

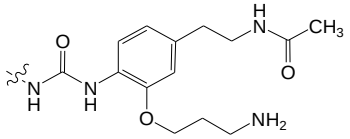

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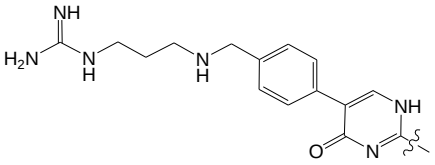

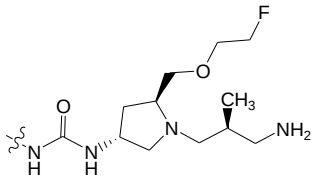

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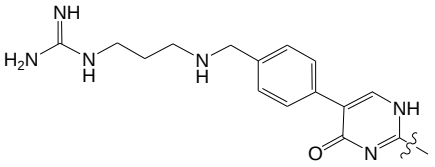

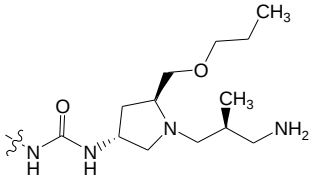

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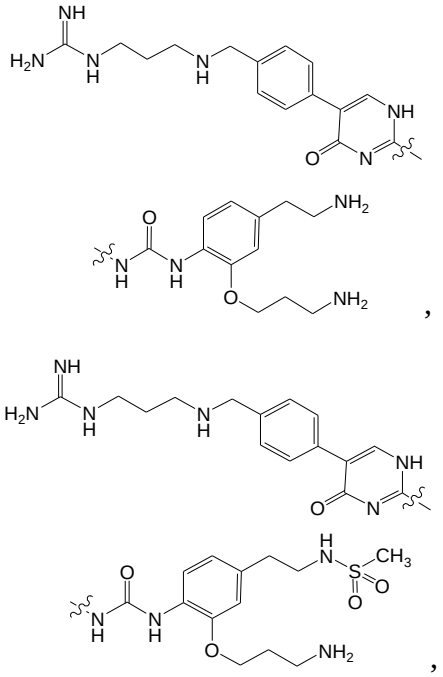

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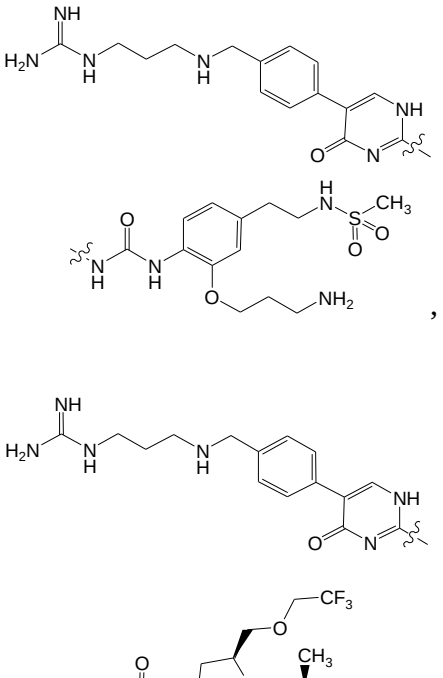

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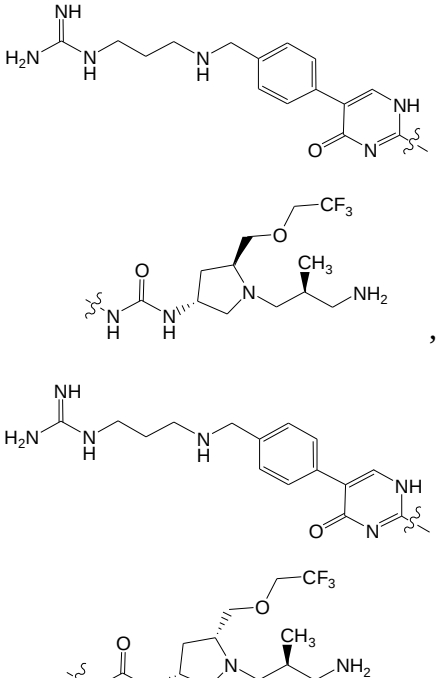

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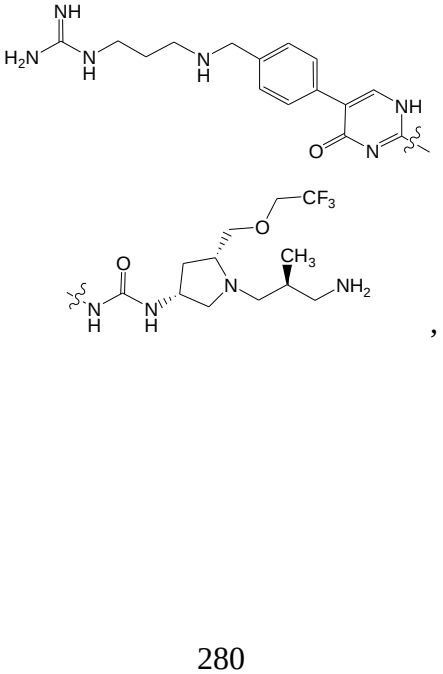

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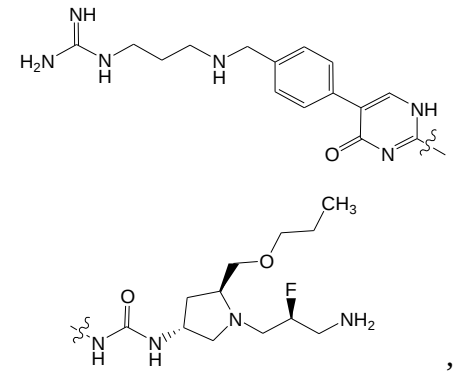

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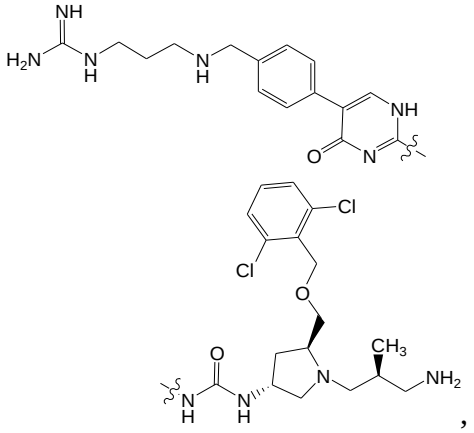

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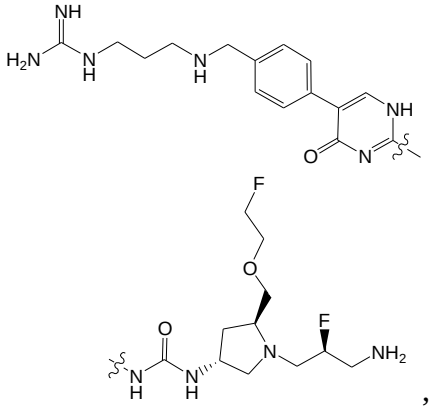

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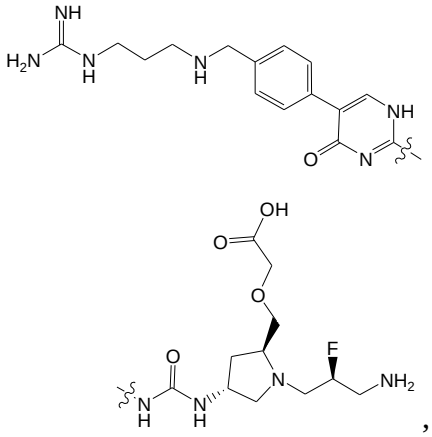

or a pharmaceutically acceptable salt or tautomer thereof.

15. A pharmaceutical composition comprising a compound according to Claim 1, or a pharmaceutically acceptable salt or tautomer thereof, and a pharmaceutically acceptable carrier.

16. A pharmaceutical composition comprising a compound according to Claim 14, or a pharmaceutically acceptable salt or tautomer thereof, and a pharmaceutically acceptable carrier.