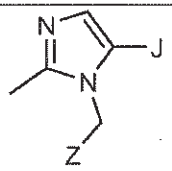
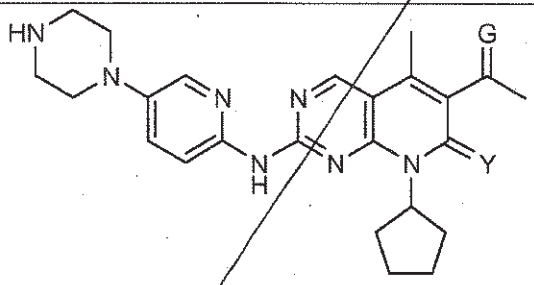
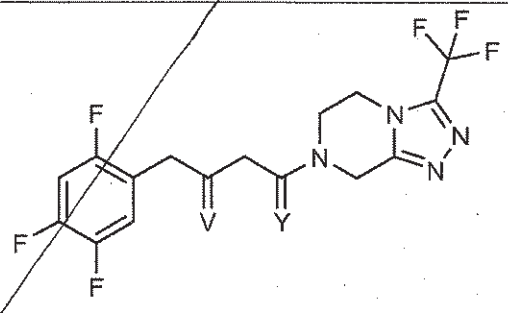
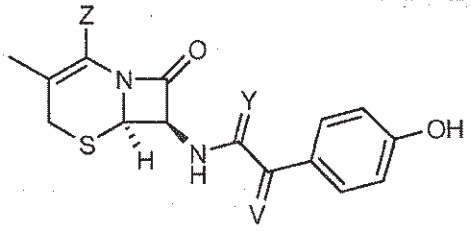
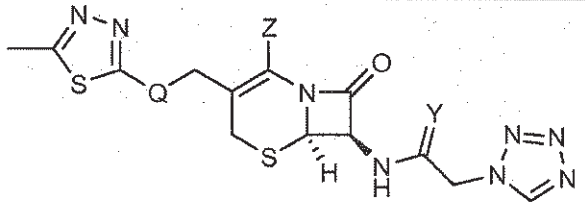
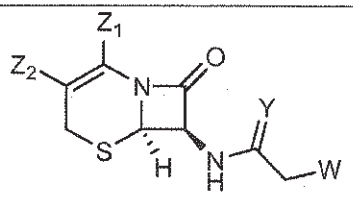
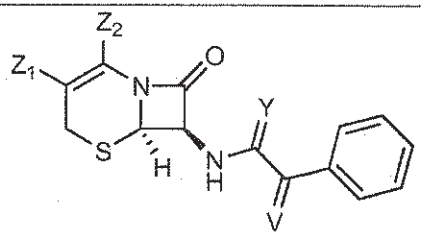
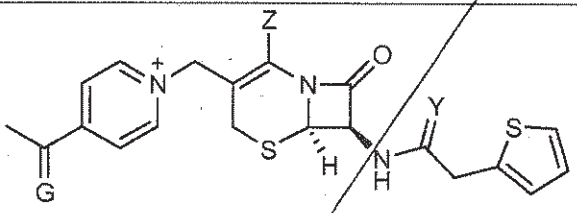
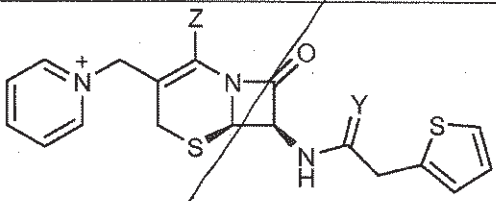
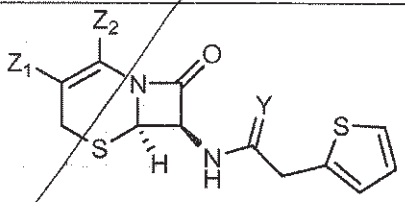
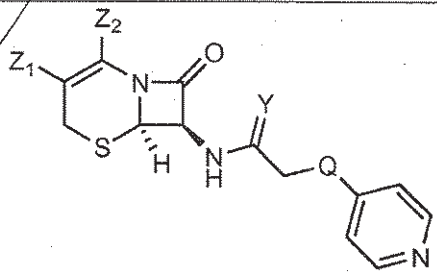
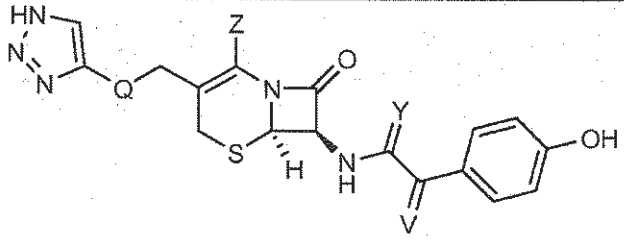
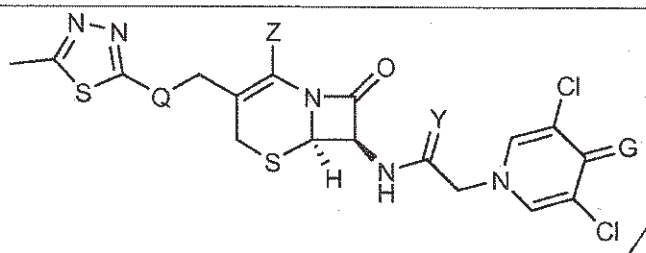
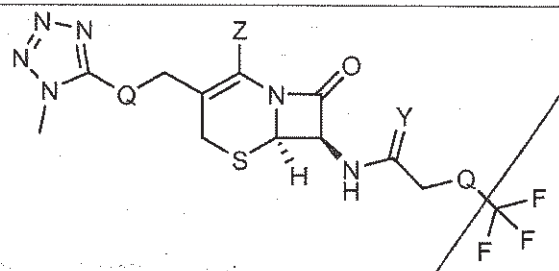
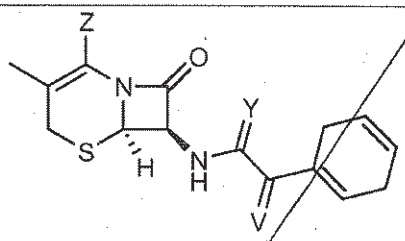
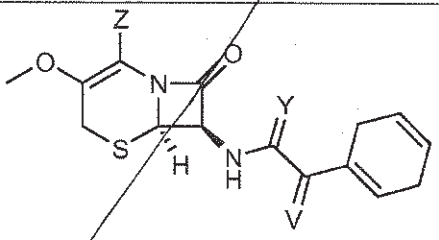
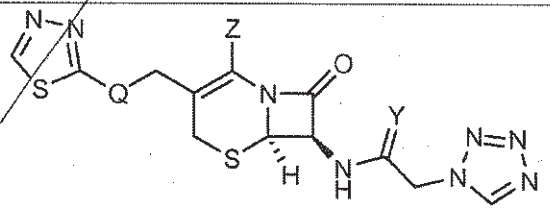
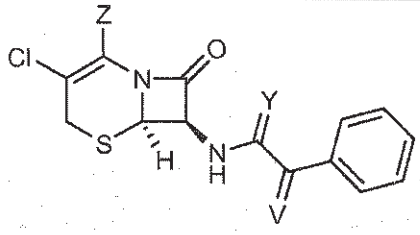
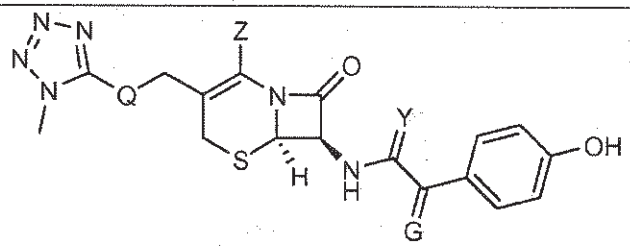
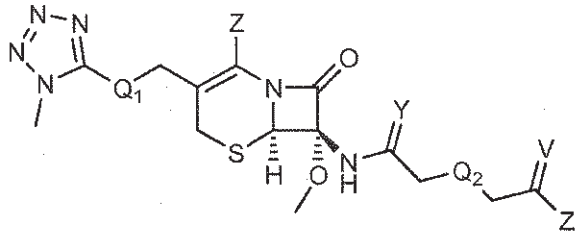
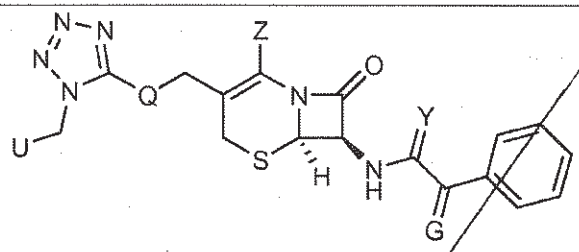
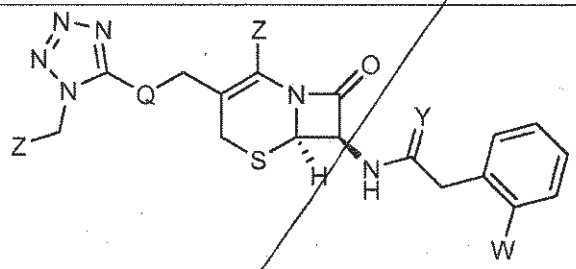
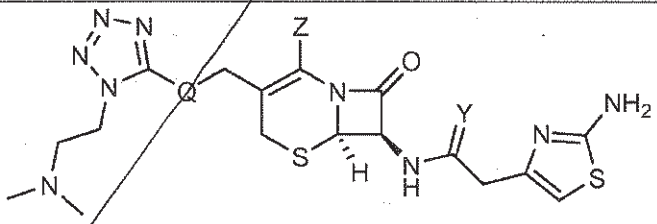
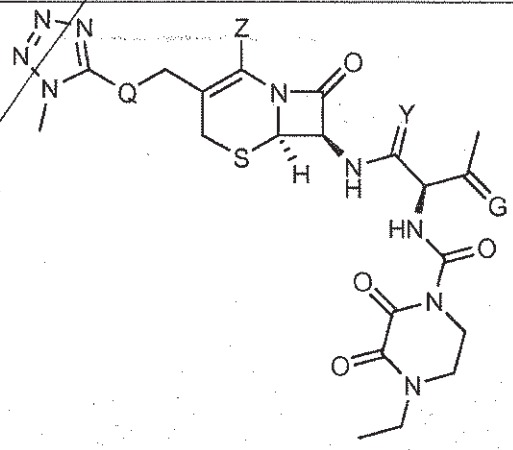
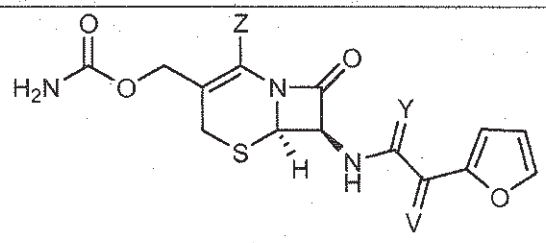
Claims

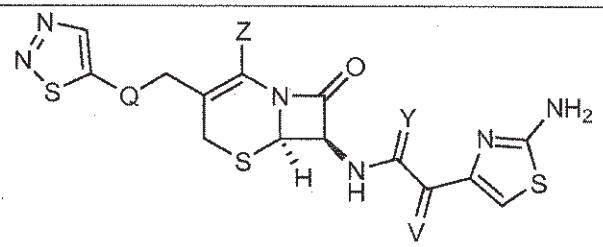
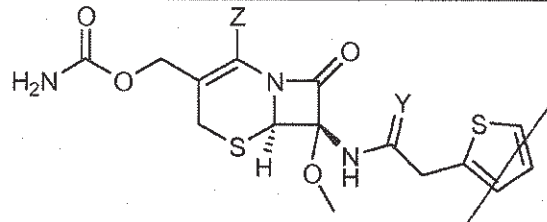
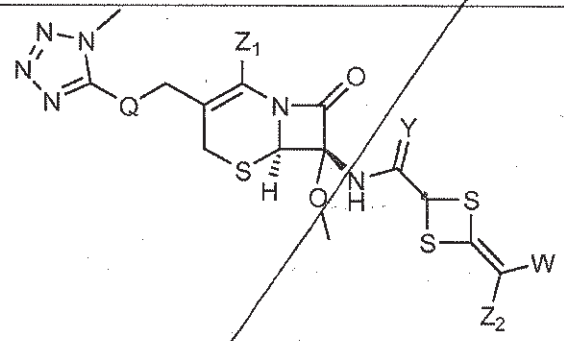
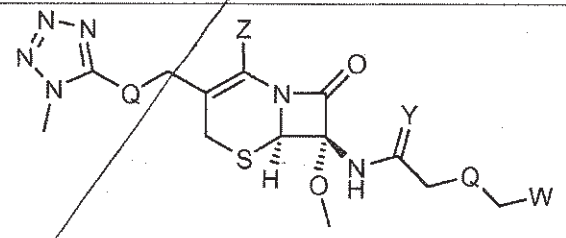
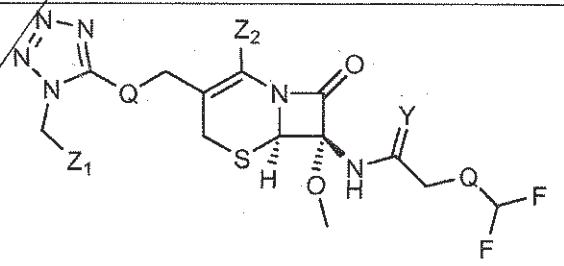
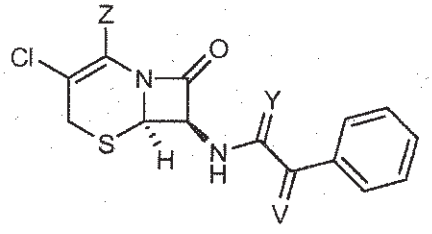
1. A compound according to any one of formulae 1 to 161 below:

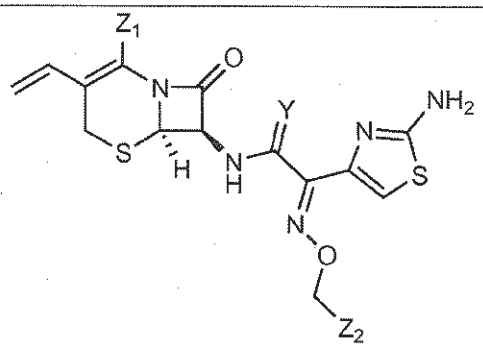
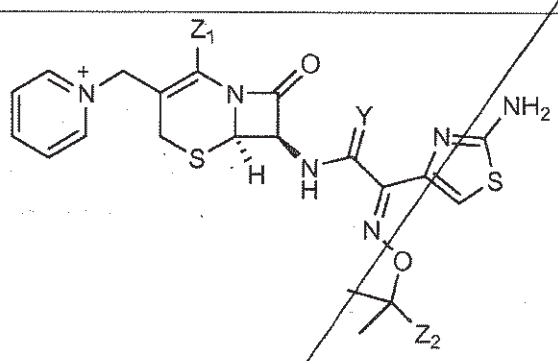
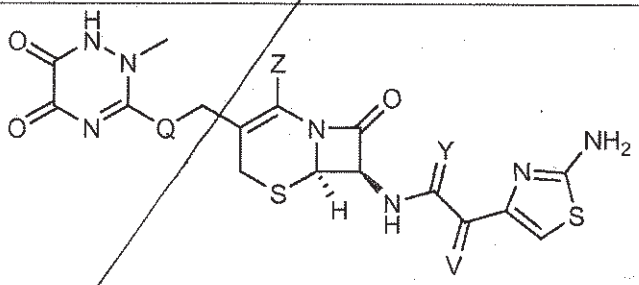
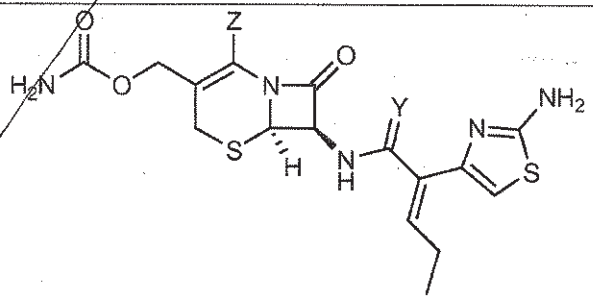
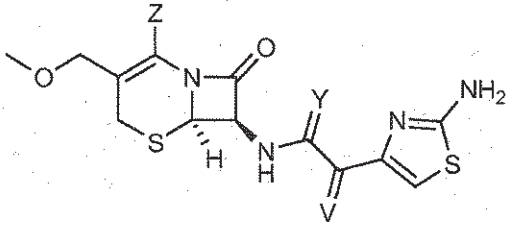
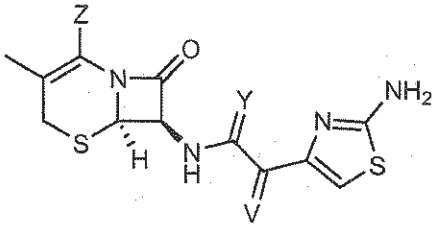
Formula number	Name of Parent Active Compound	Formula
1.	Metronidazole	
2.	PD 0332991	
3.	Sitagliptin	
4.	Cefadroxil	
5.	Cefazolin	

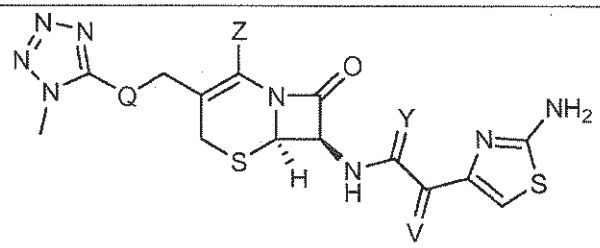
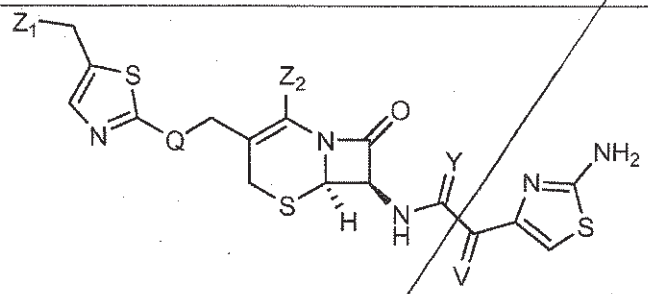
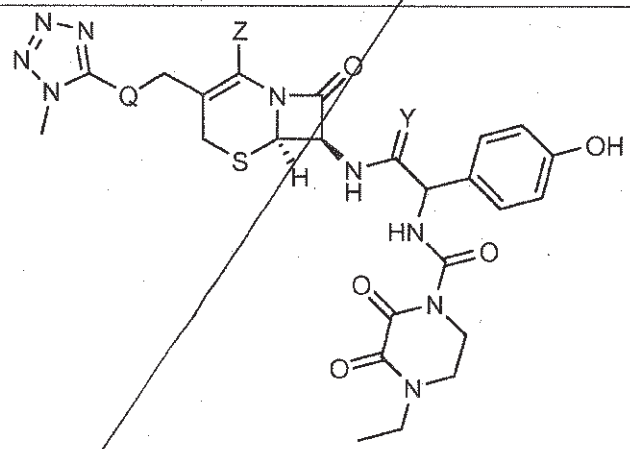
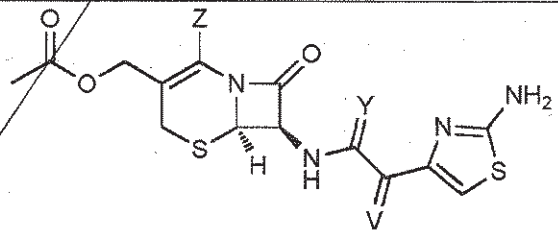
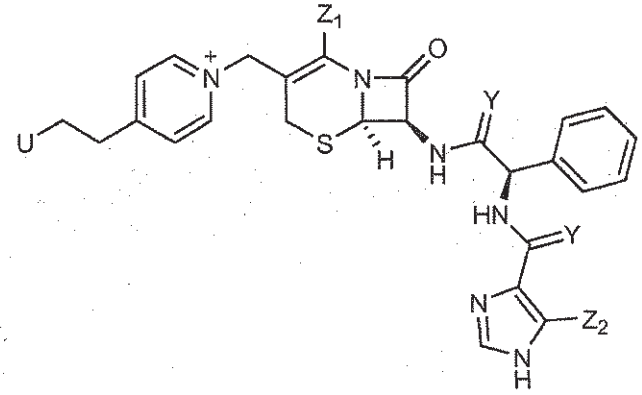
6.	Cefacetrile	
7.	Cefaloglycin	
8.	Cefalonium	
9.	Cefaloridine	
10.	Cefalotin	
11.	Cefapirin	
12.	Cefatrizine	

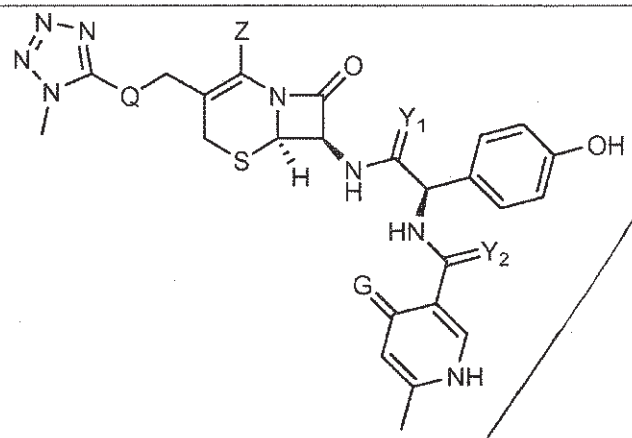
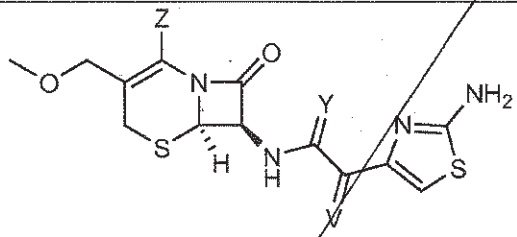
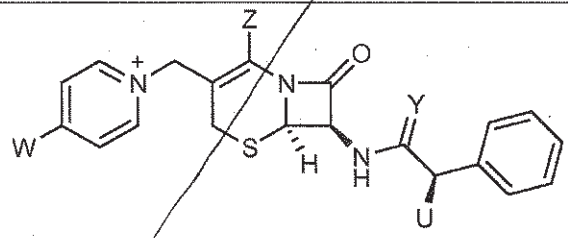
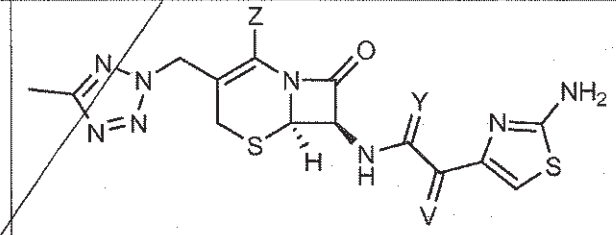
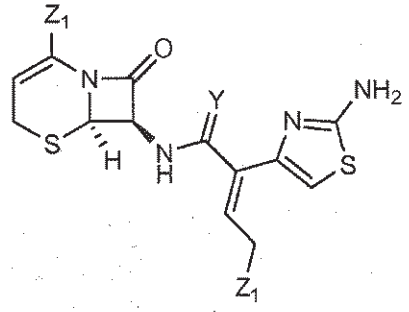
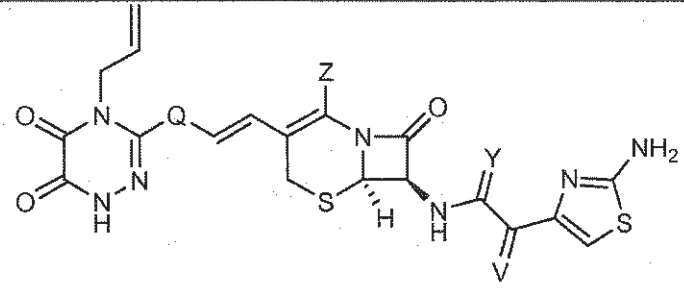
13.	Cefazedone	
14.	Cefazaflur	
15.	Cefradine	
16.	Cefroxadine	
17.	Ceftezole	
18.	Cefaclor	
19.	Cefamandole	

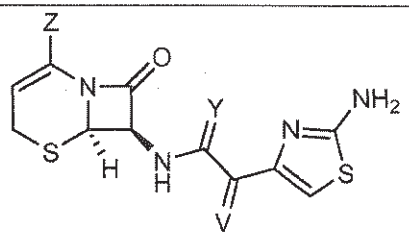
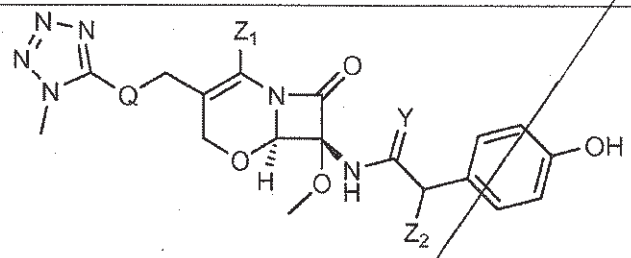
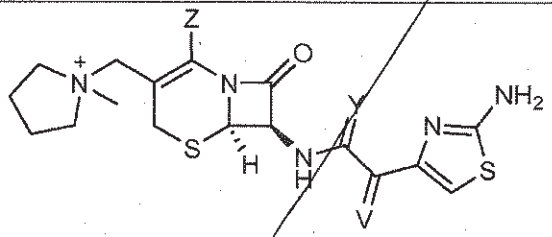
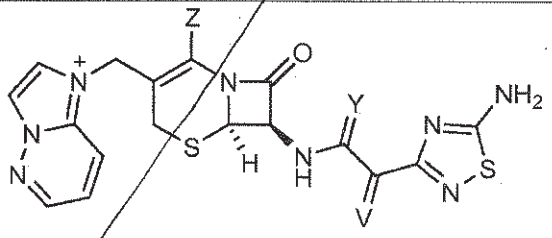
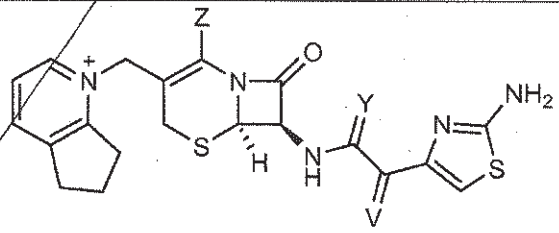
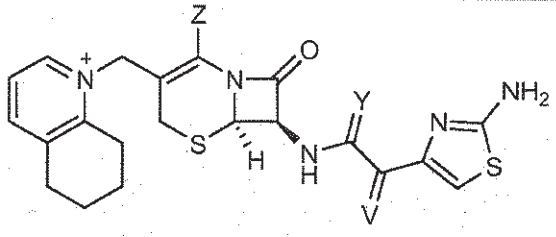
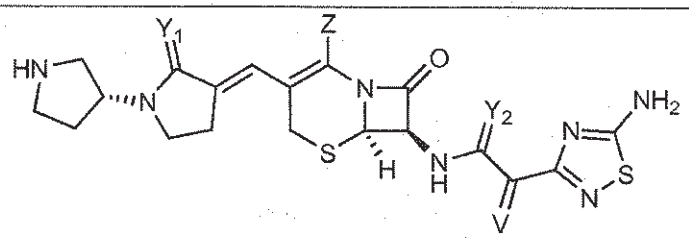
20.	Cefminox	
21.	Cefonicid	
22.	Ceforanide	
23.	Cefotiam	
24.	Cefbuperazone	
25.	Cefuroxime	

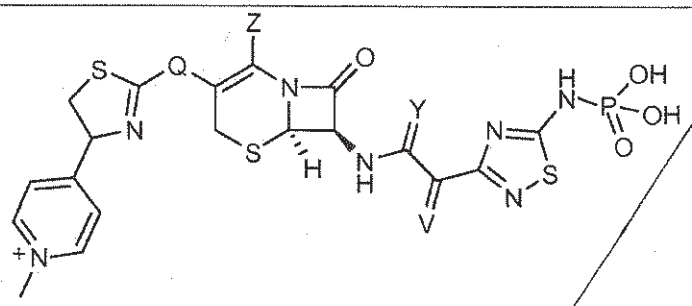
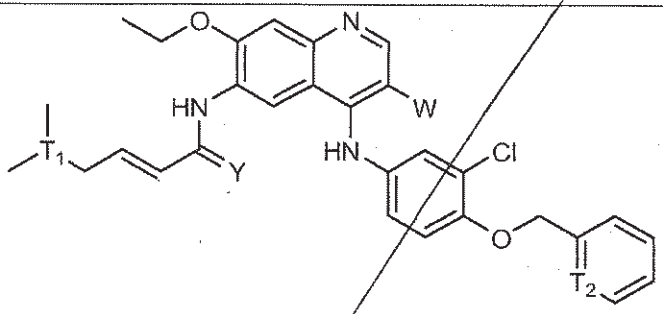
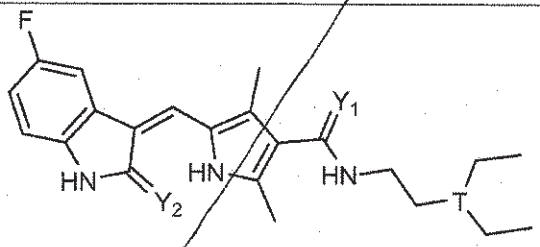
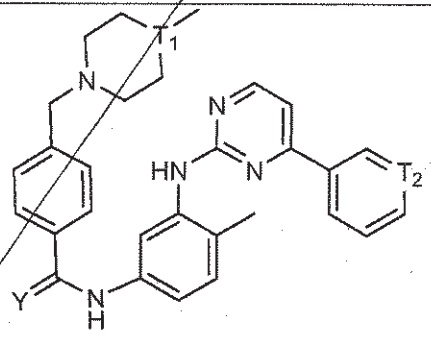
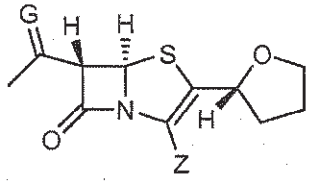
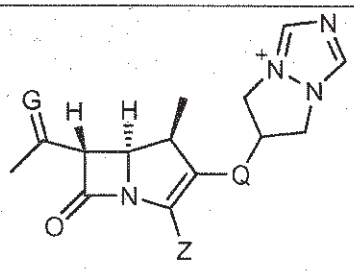
26.	Cefuzonam	
27.	Cefoxitin	
28.	Cefotetan	
29.	Cefmetazole	
30.	Flomoxef	
31.	Loracarbef	

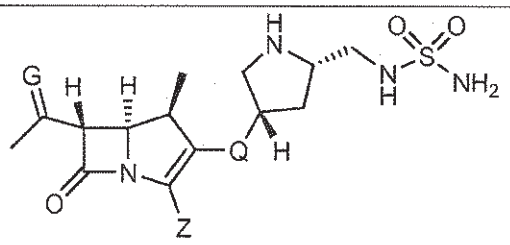
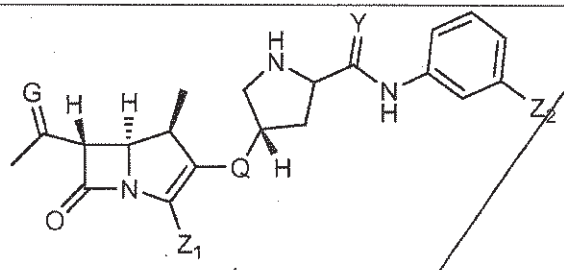
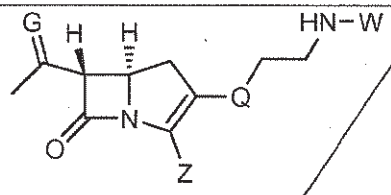
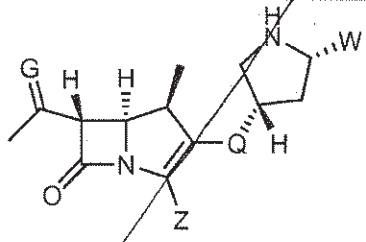
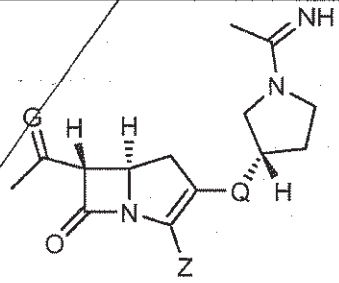
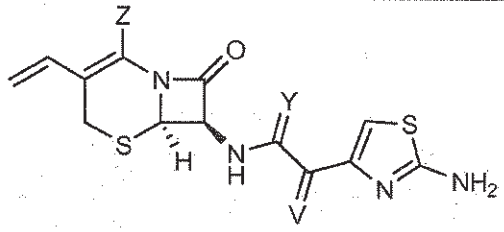
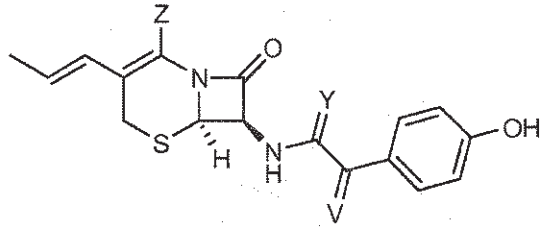
32.	Cefixime	
33.	Ceftazidime	
34.	Ceftriaxone	
35.	Cefcapene	
36.	Cefdaloxime	
37.	Cefetamet	

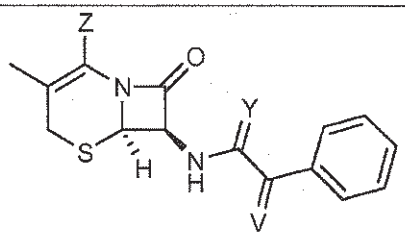
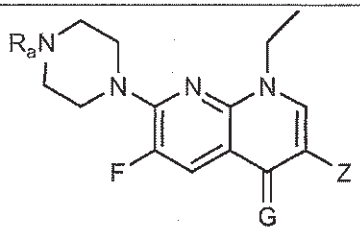
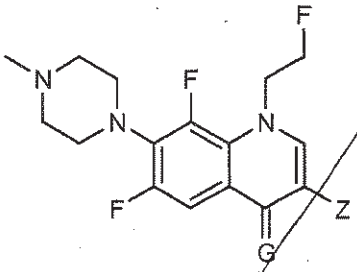
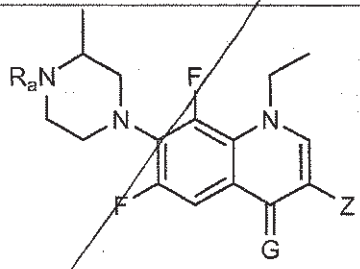
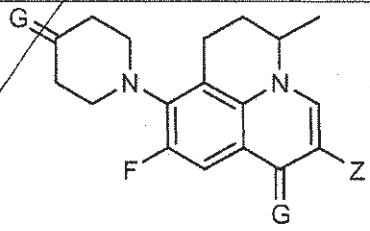
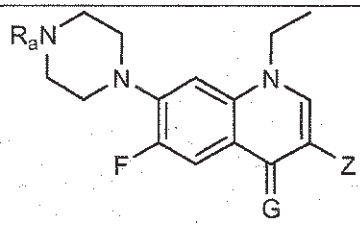
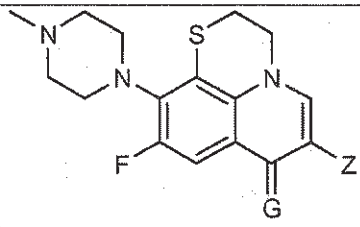
38.	Cefmenoxime	
39.	Cefodizime	
40.	Cefoperazone	
41.	Cefotaxime	
42.	Cefpimizole	

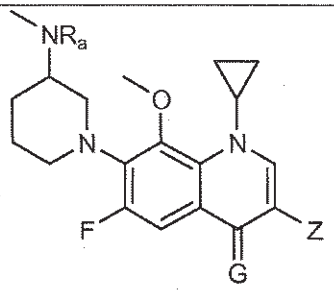
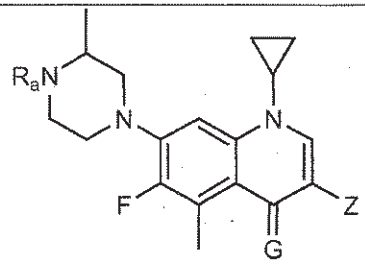
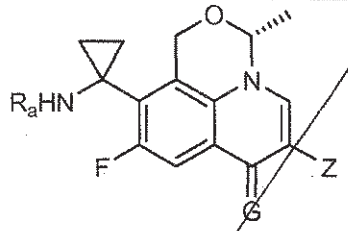
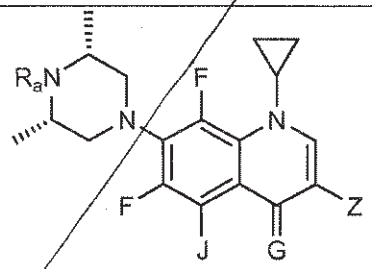
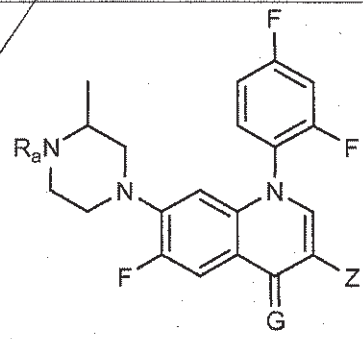
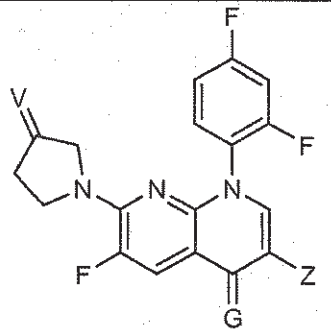
43.	Cefpiramide	
44.	Cefpodoxime	
45.	Cefsulodin	
46.	Cefteram	
47.	Ceftibuten	
48.	Ceftiolene	

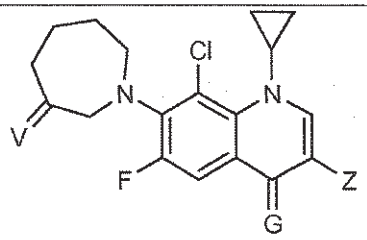
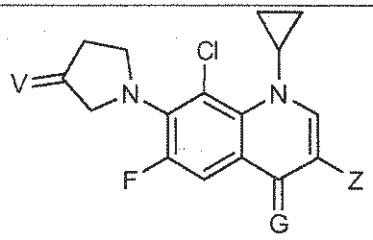
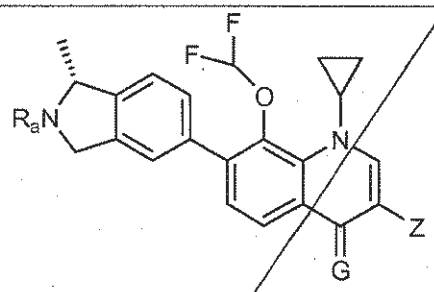
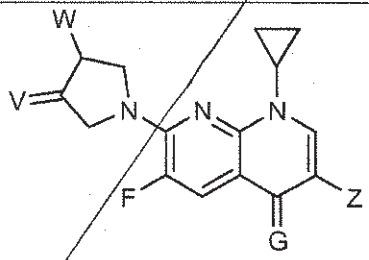
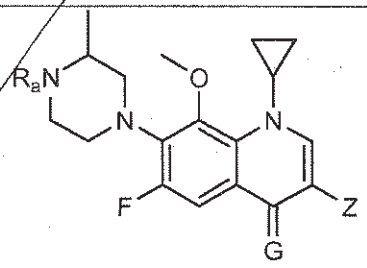
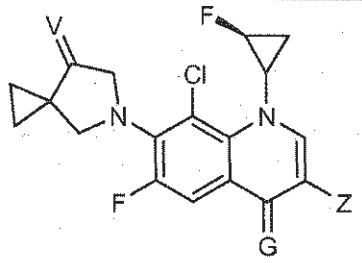
49.	Ceftizoxime	
50.	Moxalactam	
51.	Cefepime	
52.	Cefozopran	
53.	Cefpirome	
54.	Cefquinome	
55.	Ceftobiprole	

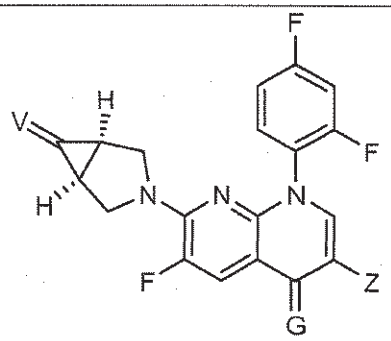
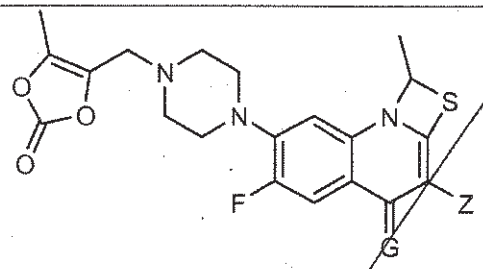
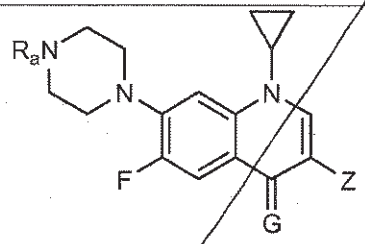
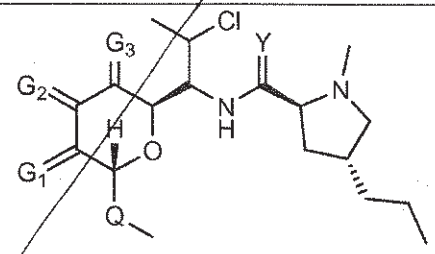
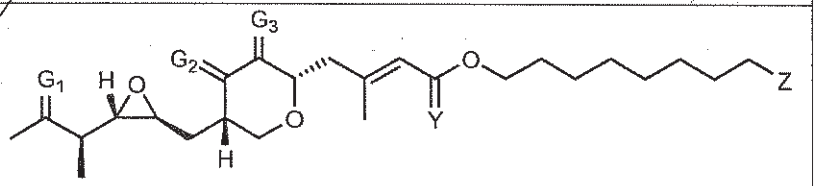
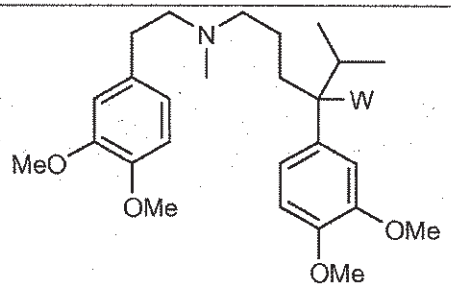
56.	Ceftaroline	
57.	Neratinib	
58.	Sutinib	
59.	Imatinib	
60.	Faropenem	
61.	Biapenem	

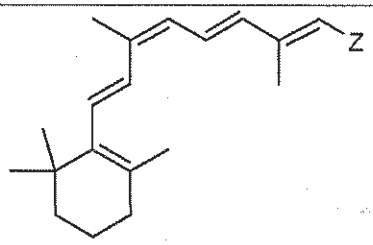
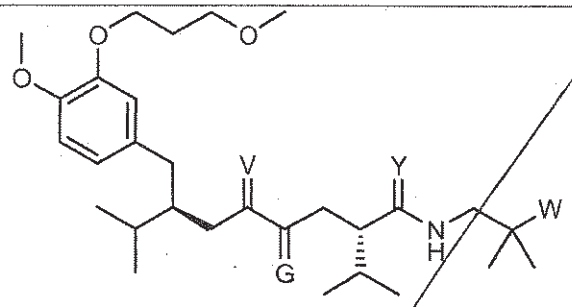
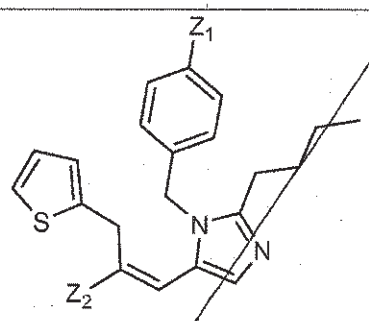
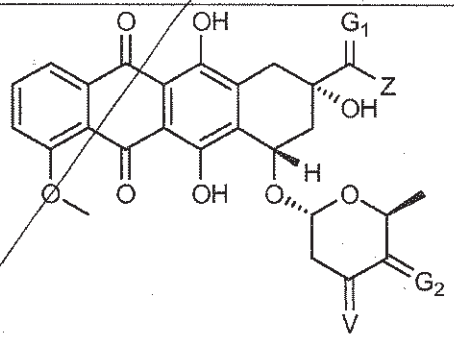
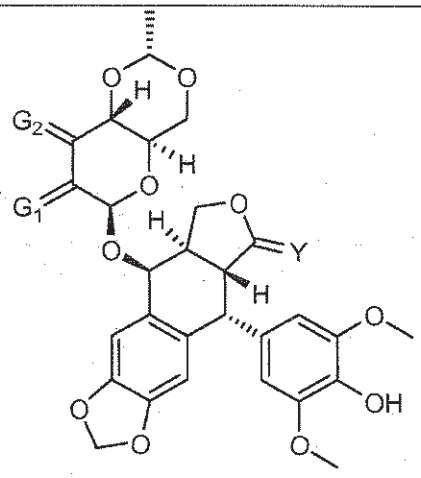
62.	Doripenem	
63.	Ertapenem	
64.	Imipenem	
65.	Meropenem	
66.	Panipenem	
67.	Cefdinir	
68.	Cefprozil	

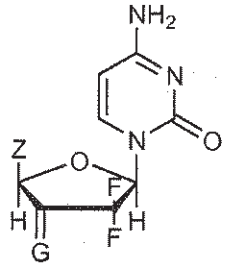
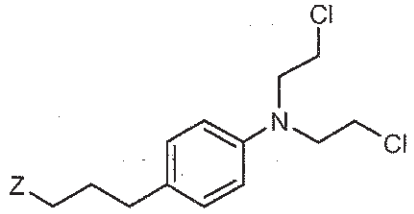
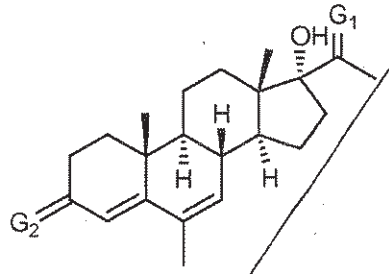
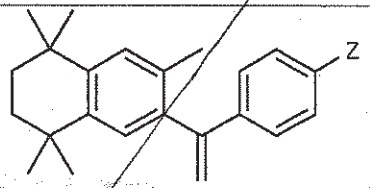
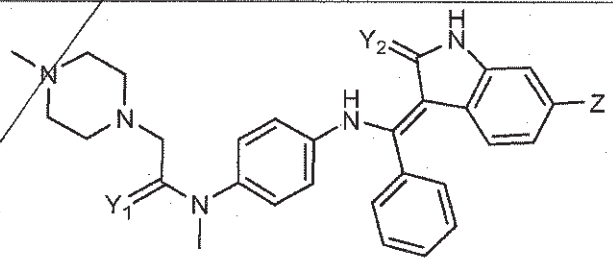
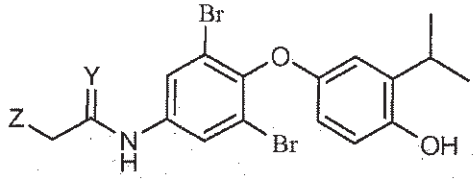
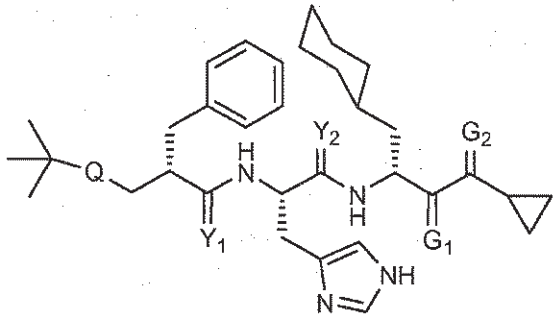
69.	Cefalexin	
70.	Enoxacin	
71.	Fleroxacin	
72.	Lomefloxacin	
73.	Nadifloxacin	
74.	Norfloxacin	
75.	Rufloxacin	

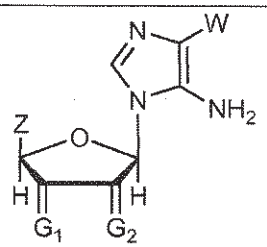
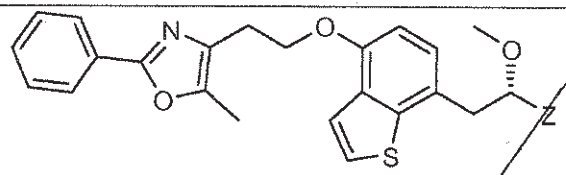
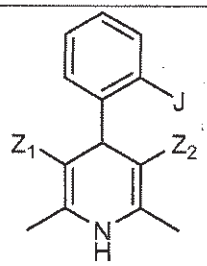
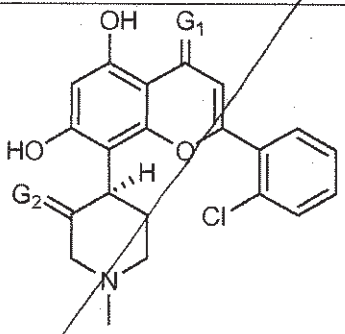
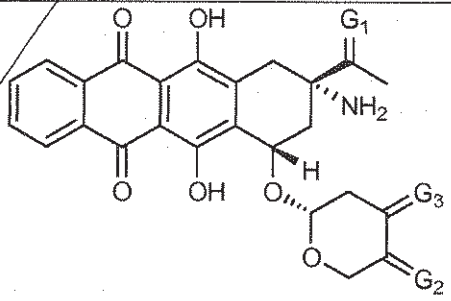
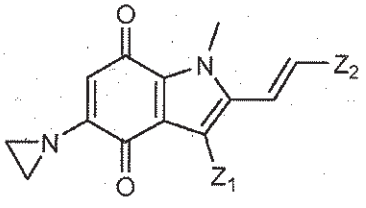
76.	Balofloxacin	
77.	Grepafloxacin	
78.	Pazufloxacin	
79.	Sparfloxacin	
80.	Temafloxacin	
81.	Tosufloxacin	

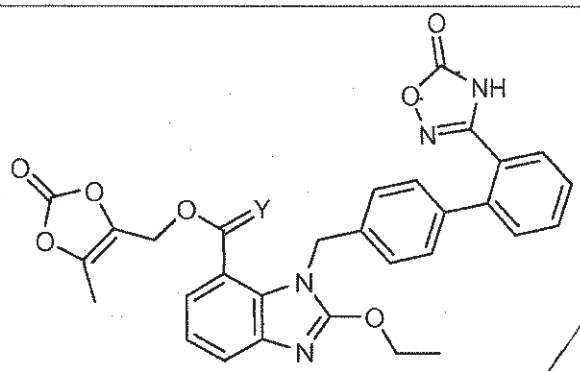
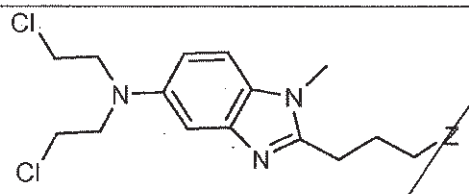
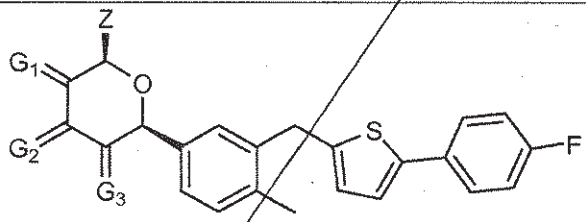
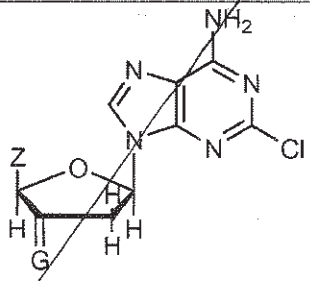
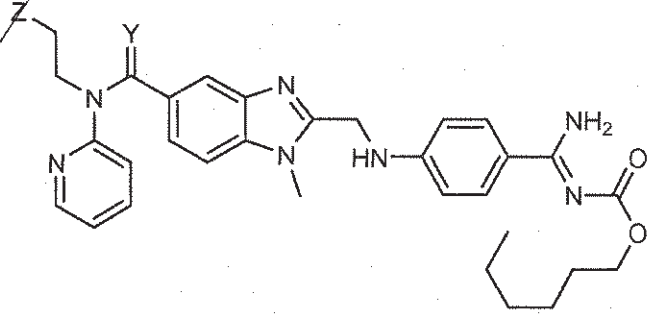
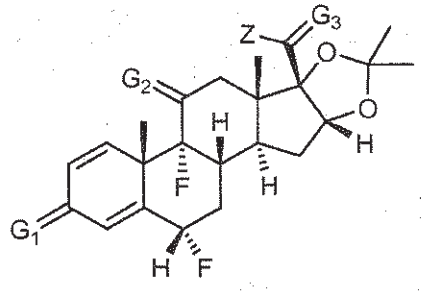
82.	Besifloxacin	
83.	Clinafloxacin	
84.	Garenoxacin	
85.	Gemifloxacin	
86.	Gatifloxacin	
87.	Sitafloxacin	

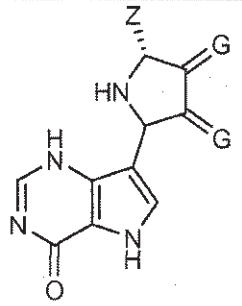
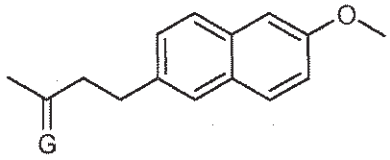
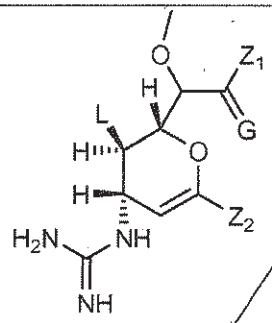
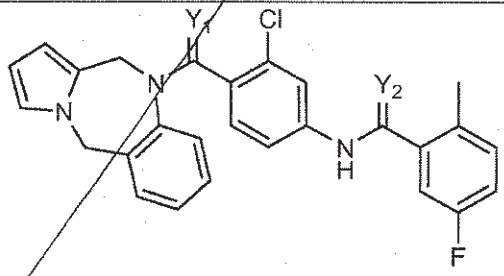
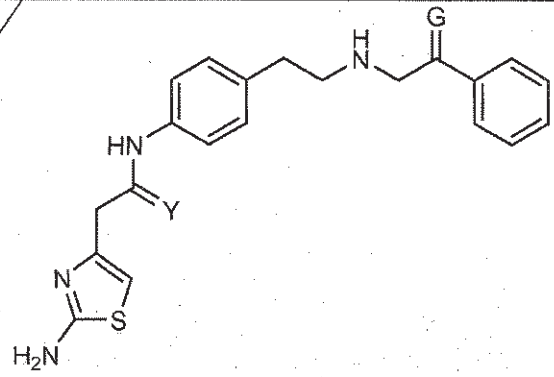
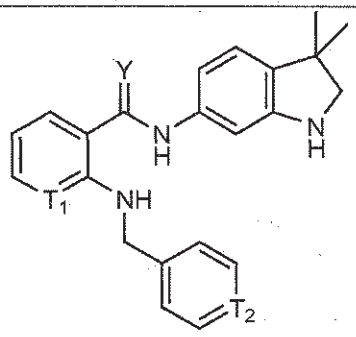
88.	Trovafloxacin	
89.	Prulifloxacin	
90.	Ciprofloxacin	
91.	Clindamycin	
92.	Mupirocin	
93.	Verapamil	

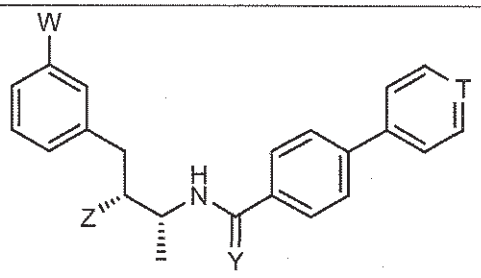
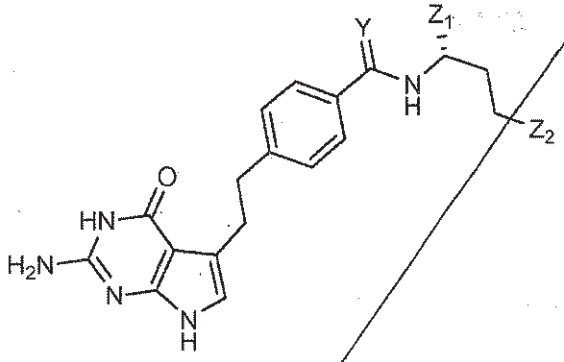
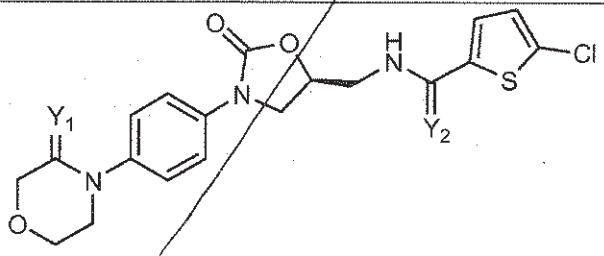
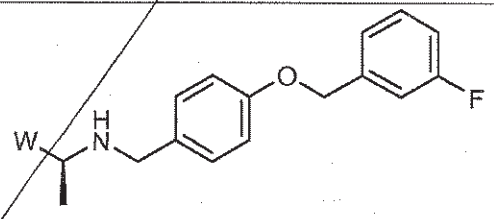
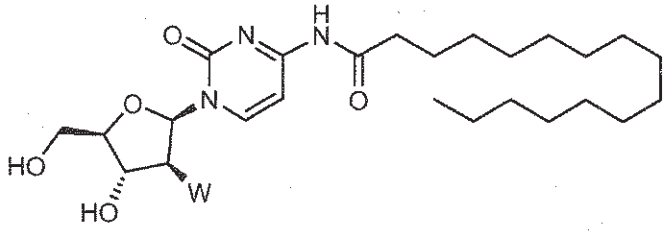
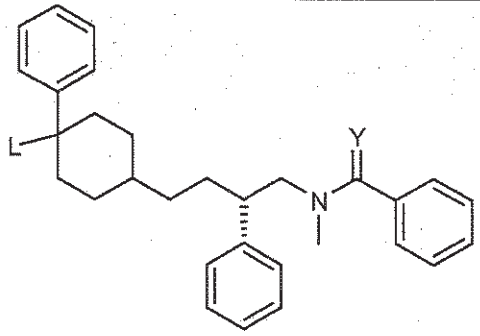
94.	Alitretinoin	
95.	Aliskiren	
96.	Eprosartan	
97.	Doxorubicin	
98.	Etoposide	

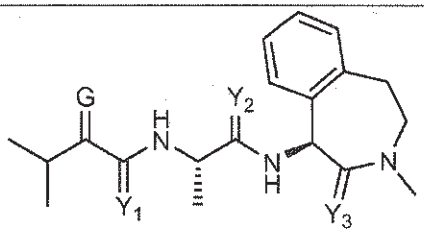
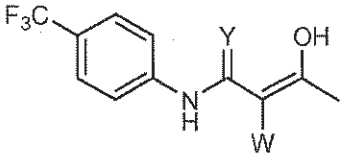
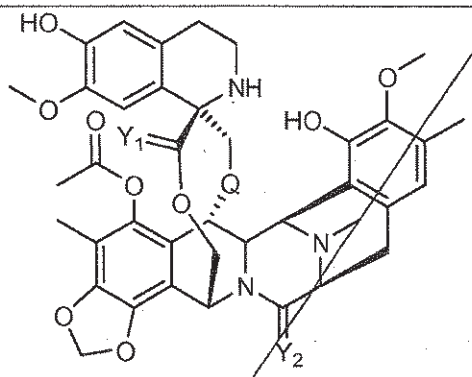
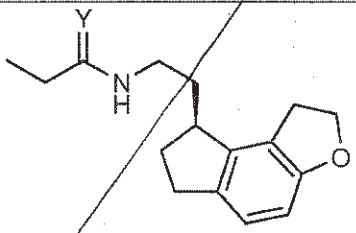
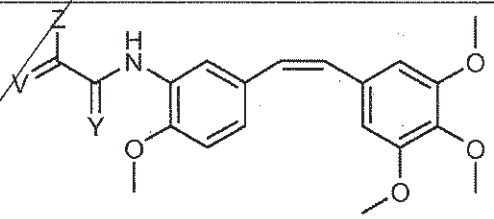
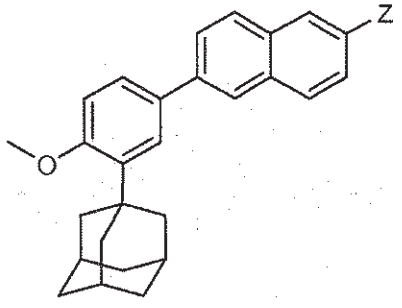
99.	Gemcitabine	
100.	Chlorambucil	
101.	Megestrol	
102.	Bexarotene	
103.	BIBF-1120	
104.	Eprotirome	
105.	Remikiren	

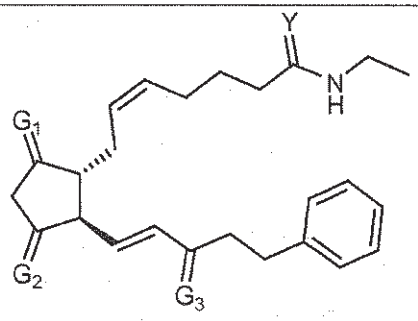
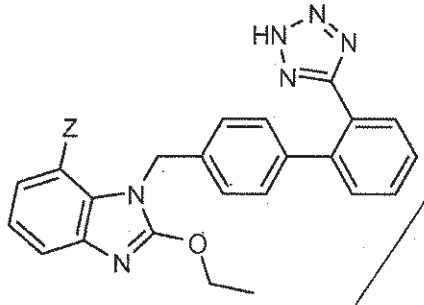
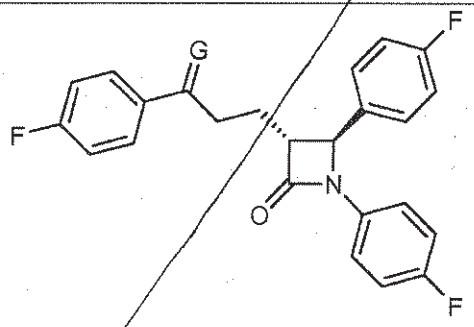
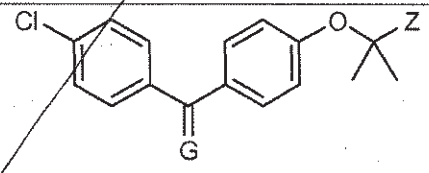
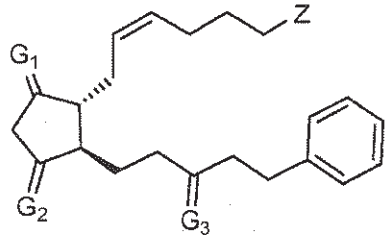
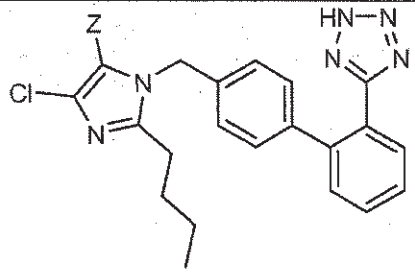
106.	Acadesine	
107.	Aleglitazar	
108.	Nifedipine	
109.	Alvocidib	
110.	Amrubicin	
111.	Apaziquone	

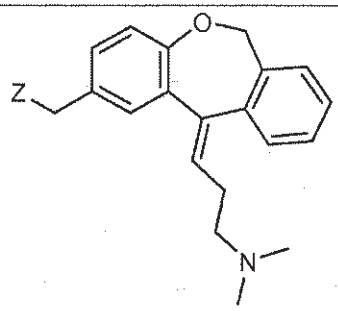
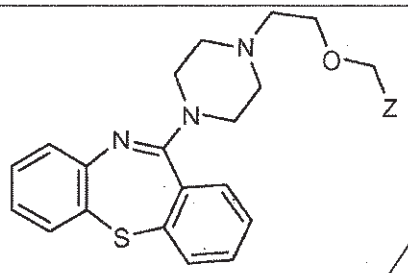
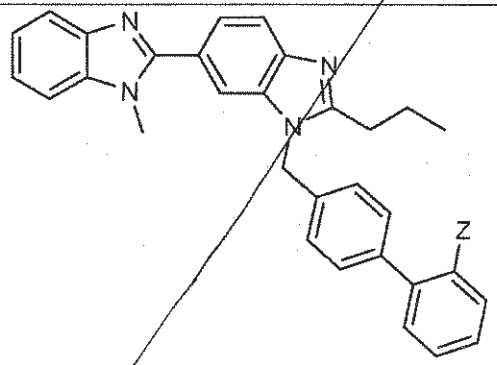
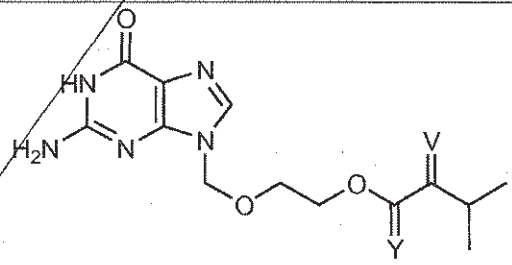
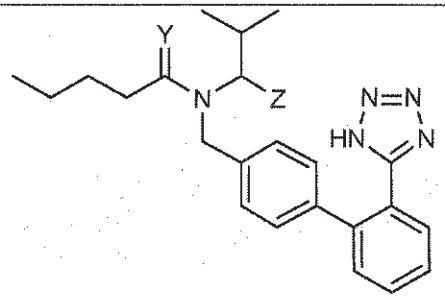
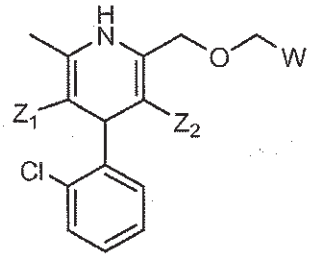
112.	Azilsartan	
113.	Bendamustine	
114.	Canagliflozin	
115.	Cladribine	
116.	Dabigatran etexilate	
117.	Fluocinolone Acetonide	

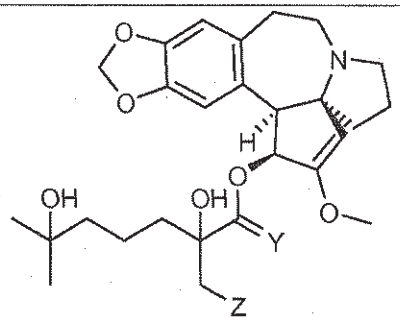
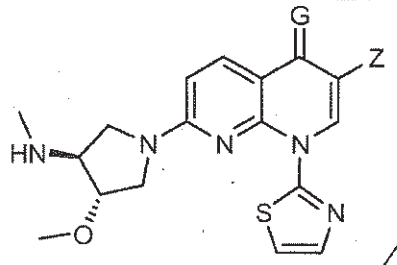
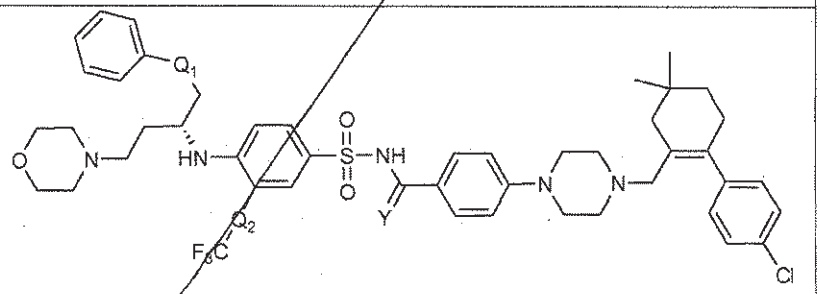
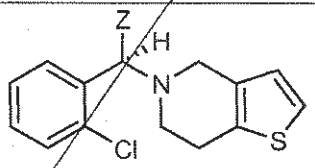
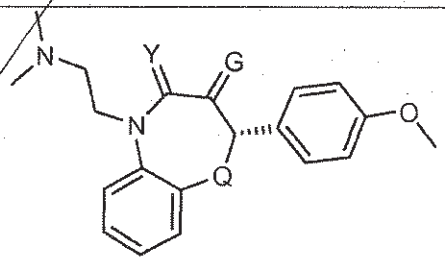
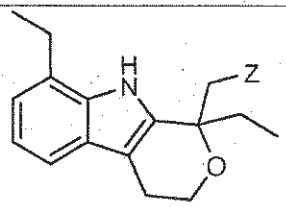
118.	Forodesine	
119.	Nabumetone	
120.	Laninamivir	
121.	Lixivaptan	
122.	Mirabegron	
123.	Motesanib	

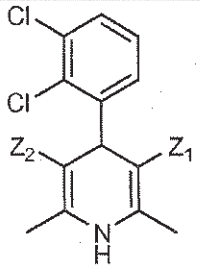
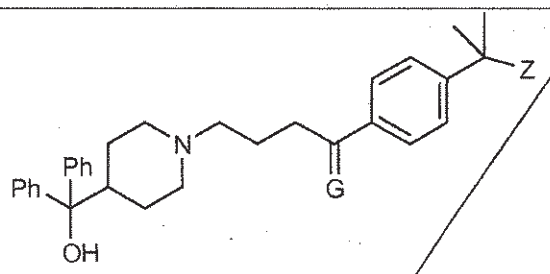
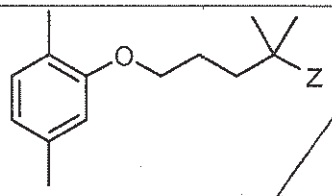
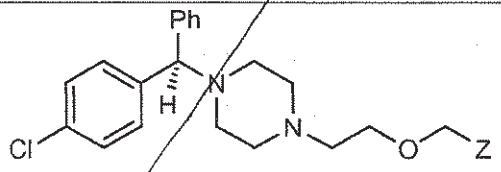
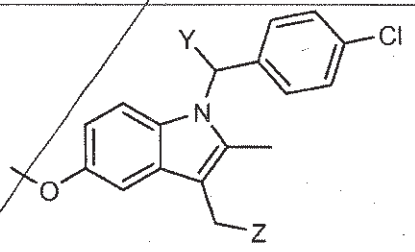
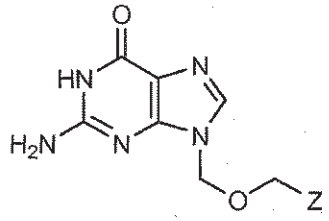
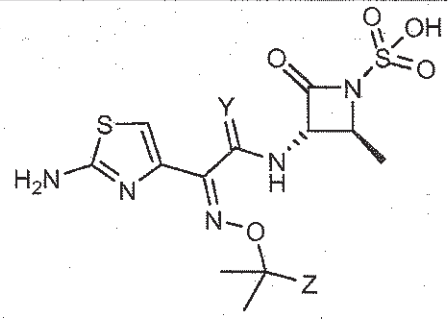
124.	Otamixaban	
125.	Pemetrexed	
126.	Rivaroxaban	
127.	Safinamide	
128.	Sapacitabine	
129.	Saredutant	

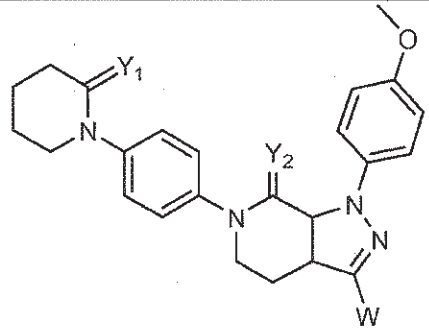
130.	Semagacestat	
131.	Teriflunomide	
132.	Trabectedin	
133.	Ramelteon	
134.	Ombrabulin (AVE8062)	
135.	Adapalene	

136.	Bimatoprost	
137.	Candesartan Cilexetil	
138.	Ezetimibe	
139.	Fenofibrate	
140.	Latanoprost	
141.	Losartan	

142.	Olopatadine	
143.	Quetiapine	
144.	Telmisartan	
145.	Valaciclovir	
146.	Valsartan	
147.	Amlodipine Besylate	

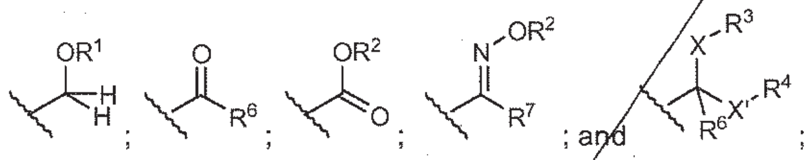
148.	Omacetaxine Mepesuccinate	
149.	Voreloxin	
150.	ABT-263	
151.	Clopidogrel	
152.	Diltiazem	
153.	Etodolac	

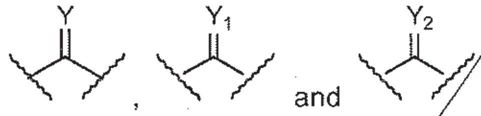
154.	Felodipine	
155.	Fexofenadine	
156.	Gemfibrozil	
157.	Hydroxyzine	
158.	Indometacin	
159.	Acyclovir	
162.	Aztreonam	

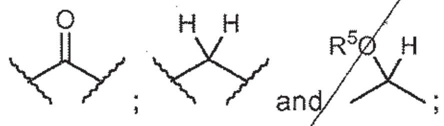
163.	Apixaban	

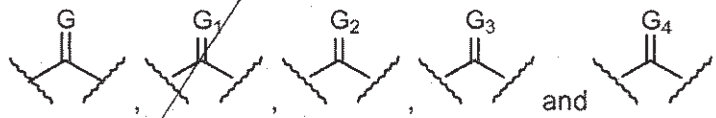
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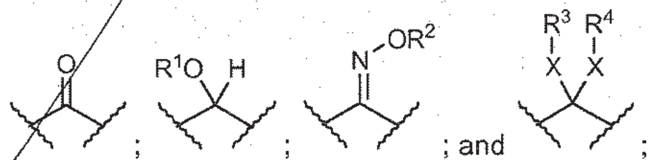
Z, Z_1 and Z_2 are independently, at each occurrence, selected from the group comprising:

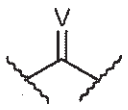


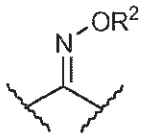
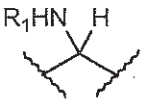
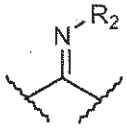
 are independently, at each occurrence, selected from the group comprising:



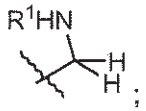
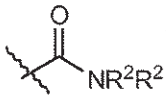
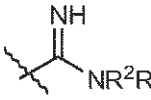
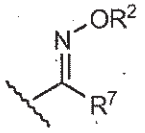
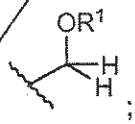
 are independently, at each occurrence, selected from the group comprising:



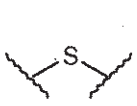
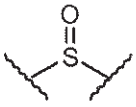
 is independently, at each occurrence, selected from the group comprising:

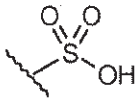
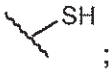
 ;  ; and  ;

W is independently, at each occurrence, selected from the group comprising

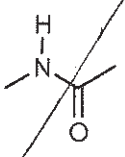
 ;  ;  ;  ;  ; and  ;

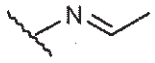
J is independently, at each occurrence, selected from the group comprising: $-NO_2$; and $-NHR^1$;

Q, Q_1 and Q_2 are independently at each occurrence selected from the group comprising:  ;  ; and  ;

U is independently at each occurrence selected from the group comprising:  , and  ;

T, T_1 and T_2 is independently at each occurrence selected from the group comprising: N and NO;

L is independently at each occurrence selected from the group comprising:  ;

and  ;

R_a is H or Ac;

R^1 is independently at each occurrence H or Ac;

R^2 is independently at each occurrence H, C_1 alkyl, C_2 alkyl, C_3 alkyl or C_4 alkyl;

R^3 and R^4 are independently, at each occurrence, selected from the group comprising: H and C_{1-4} alkyl, or alternatively R^3 and R^4, together with the X atoms to which they are attached and the carbon atom bearing the X atoms, form a 5-, 6- or 7- membered ring which is saturated or unsaturated;

R^5 is independently at each occurrence selected from the group comprising: H, Ac, and C_{1-4} alkyl;

R^6 is independently at each occurrence selected from the group comprising: H, C_{1-4} alkyl, and C_{1-2} haloalkyl;

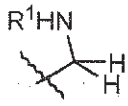
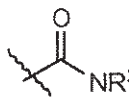
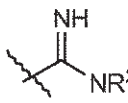
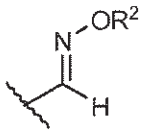
R^7 is independently at each occurrence selected from the group comprising: H, C_{1-2} alkyl, C_{1-2} haloalkyl and $NR^6R^{6'}$ and

X is independently, at each occurrence, -O- or –S-;

provided always that the compound is not selected from the group comprising: Cafedroxil, Cefazolin, Cefacetrile, Cefaloglycin, Cefalonium, Cefaloridine, Cefalotin, Cefapirin, Cefatrizine, Cefazedone, Cefazaflur, Cefradine, Cefroxadine, Ceftezole, Cefaclor, Cefamandole, Cefminox, Cefonicid, Ceforanide, Cefotiam, Cefbuperazone, Cefuroxime, Cefuzonam, Cefoxitin, Cefotetan, Cefmetazole, Flomoxef, Loracarbef, Cefixime, Ceftazidime, Ceftriaxone, Cefcapene, Cefdaloxime, Cefetamet, Cefmenoxime, Cefodizime, Cefoperazone, Cefotaxime, Cefpimizole, Cefpiramide, Cefpodoxime, Cefsulodin, Cefteram, Ceftibuten, Ceftiolene, Ceftizoxime, Moxalactam, Cefepime, Cefozopran, Cefpirome, Cefquinome, Ceftobiprole, Ceftaroline, Faropenem, Biapenem, Doripenem, Ertapenem, Imipenem,

Meropenem, Panipenem, Cefdinir, Cefprozil, Cefalexin, Enoxacin, Fleroxacin, Lomefloxacin, Nadifloxacin, Norfloxacin, Rufloxacin, Balofloxacin, Grepafloxacin, Pazufloxacin, Sparfloxacin, Temafloxacin, Tosufloxacin, Besifloxacin, Clinafloxacin, Garenoxacin, Gemifloxacin, Gatifloxacin, Sitafloxacin, Trovafloxacin, Prulifloxacin, Ciprofloxacin, Clindamycin, Metronidazole, Mupirocin, Verapamil, Alitretinoin, Aliskiren, Eprosartan, Doxorubicin, Etoposide, Raloxifene, Fulvestrant, Gemcitabine, Imatinib, Chlorambucil, Megestrol, Bexarotene, BIBF-1120, Eprotirome, Remikiren, Acadesine, Aleglitazar, Nifedipine, Alvocidib, Amrubicin, Apaziquone, Azilsartan, Bendamustine, Canagliflozin, Cladribine, Dabigatran etexilate, Fluocinolone Acetonide, Forodesine, Nabumetone, Laninamivir, Lixivaptan, Mirabegron, Motesanib, Neratinib, Otamixaban, Pemetrexed, Rivaroxaban, Safinamide, Sapacitabine, Saredutant, Semagacestat, Teriflunomide, Trabectedin, Ramelteon, Ombrabulin (AVE8062), PD 0332991, Sunitinib, Adapalene, Aripiprazole, Bimatoprost, Candesartan, Cilexetil, Ezetimibe, Fenofibrate, Latanoprost, Losartan, Clopidogrel, Olopatadine, Quetiapine, Sitagliptin, Telmisartan, Valaciclovir, Valsartan, Acyclovir, Amlodipine, Besylate, Omacetaxine Mepesuccinate, Voreloxin, ABT-263, Diltiazem, Etodolac, Felodipine, Fexofenadine, Gemfibrozil, Aztreonam, Apixaban, Hydroxyzine and Indometacin.

2. The compound of claim 1, selected from any two to twenty of the compounds of formulae 1 to 161.

3. The compound of any preceding claim, wherein W when present is independently at each occurrence selected from the group comprising:  ;  ;  ;  ; and  ; wherein R^1 and R^2 are as described above;

4. The compound of any preceding claim, wherein when present R_a is H or Ac, and is preferably is H.

5. The compound of any preceding claim, wherein when present R^1 is H or Ac, and is preferably is H or methyl.

6. The compound of any preceding claim, wherein when present R^2 is H or C_{1-4} alkyl, and preferably is H or methyl.

7. The compound of any preceding claim, wherein when present R^3 and R^4 are independently, at each occurrence, selected from the group comprising: H and C_{1-4} alkyl, or alternatively R^3 and R^4, together with the X atoms to which they are attached and the carbon atom bearing the X atoms, form a 5-, 6- or 7- membered ring which is saturated or unsaturated;

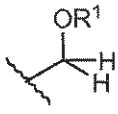
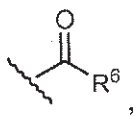
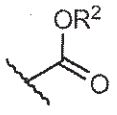
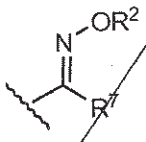
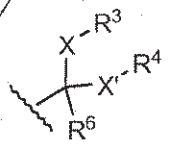
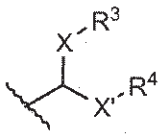
8. The compound of any preceding claim, wherein when present, R^5 is independently at each occurrence selected from the group comprising: H, Ac, and C_{1-4} alkyl, and is preferably H.

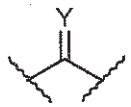
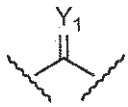
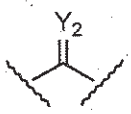
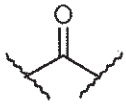
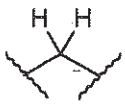
9. The compound of any preceding claim, wherein when present, R^6 is independently at each occurrence selected from the group comprising: H, C_{1-4} alkyl, and C_{1-2} haloalkyl, and is preferably H.

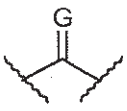
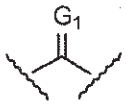
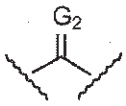
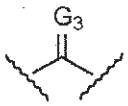
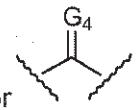
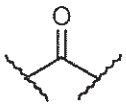
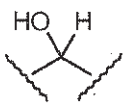
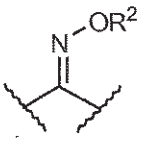
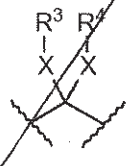
10. The compound of any preceding claim, wherein when present R^7 is independently at each occurrence selected from the group comprising: H, C_{1-2} alkyl, C_{1-2} haloalkyl and NR^6R^6; and is preferably H.

11. The compound of any preceding claim, wherein when present, X is independently at each occurrence -O-.

12. The compound of any of claims 1 to 10, wherein when present, X is independently at each occurrence -S-.

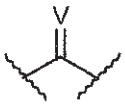
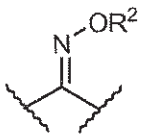
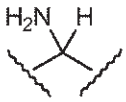
13. The compound of any preceding claim, wherein Z, Z_1 or Z_2 when present are independently at each occurrence selected from the group comprising:  ,  ,  ,  ,  , and  .

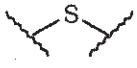
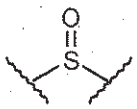
14. The compound of any preceding claim, wherein  ,  or  are independently, wherever they occur, selected from the group comprising:  ;  and .

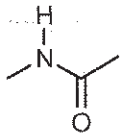
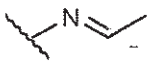
15. The compound of any preceding claim, wherein  ,  ,  ,  or  are, when present, are independently selected from the group comprising:  ,  ,  , and  .

16. The compound of any preceding claim, wherein, when present, T, T_1 or T_2 may independently at each occurrence be N.

17. The compound of any of claims 1 to 15, wherein, when present, T, T_1 or T_2 may independently at each occurrence be NO.

18. The compound of any preceding claim, wherein, when present,  is independently at each occurrence selected from the group comprising:  and  .

19. The compound of any preceding claim, wherein, when present, Q, Q_1 or Q_2 may independently at each occurrence be selected from the group comprising:  ,  , and  .

20. The compound of any preceding claim, wherein, when present, L is  ., or  .

21. The compound of any preceding claim, wherein, when present, two adjacent G, V or Y groups present in a vicinal arrangement may form a 5- ,6- or 7-membered ring, optionally substituted with an oxo group.

22. The compound of claim 21, wherein the two adjacent G, V or Y groups form a 5-membered ring.

23. The compound of any of claims 1 to 22 for use as a medicament for human use.

24. The compound of any of claims 1 to 22 for use as a medicament for veterinary use.

25. A pharmaceutical composition comprising the compound of any of claims 1 to 22, together with one or more pharmaceutical excipients.

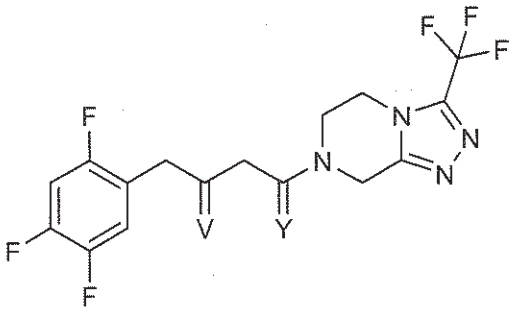
26. An oral dosage form comprising the compound of any of claims 1 to 22, together with one or more pharmaceutical excipients.

27. An intravenous dosage form comprising the compound of any of claims 1 to 22, together with one or more pharmaceutical excipients.

28. The compound of claim 23 or 24, wherein the use is for the treatment of diabetes, bacterial infections, viral infections or cancer.

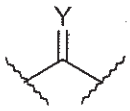
Claims

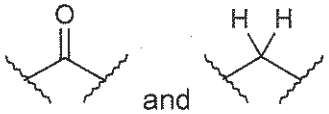
1. A compound according to formula **3** below:

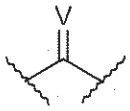


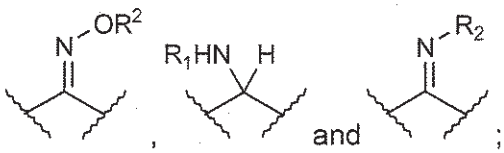
3

wherein:


is independently selected from the group comprising:


;


is independently selected from the group comprising:

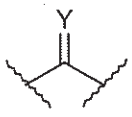
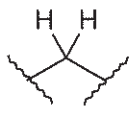

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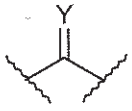
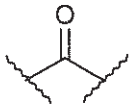
R^1 is independently at each occurrence H or Ac;

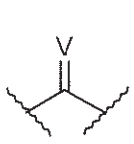
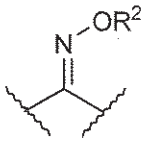
R^2 is independently at each occurrence H, C_1 alkyl, C_2 alkyl, C_3 alkyl or C_4 alkyl;

R^5 is independently at each occurrence selected from the group comprising: H, Ac, and $C_{1\text{-}4}$ alkyl;

provided always that the compound is not sitagliptin.

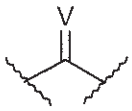
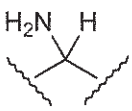
2. The compound of claim 1, wherein  is  .

3. The compound of claim 1, wherein  is  .

4. The compound of any preceding claim, wherein  is  .

5. The compound of claim 4, wherein R^2 is H.

6. The compound of claim 4, wherein R^2 is methyl, ethyl, propyl, isopropyl, butyl or tert-butyl.

7. The compound of claim 1 or claim 2, wherein  is  .

8. The compound of any one of claims 1 to 7 for use as a medicament.

9. A pharmaceutical composition comprising the compound of any of claims 1 to 7, together with one or more pharmaceutical excipients.

10. An oral dosage form comprising the compound of any of claims 1 to 7, together with one or more pharmaceutical excipients.

11. An intravenous dosage form comprising the compound of any of claims 1 to 7, together with one or more pharmaceutical excipients.

12. The compound of any one of claims 1 to 7, for use in the treatment of diabetes.