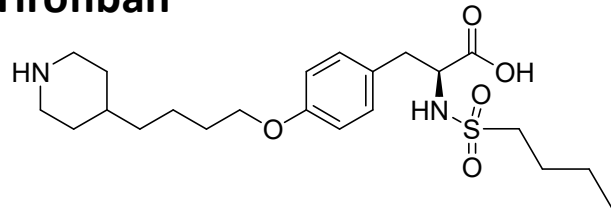


Examples of analysis of Impurities in APIs

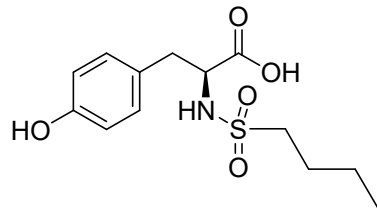
1. Tirofiban



CAS:144494-65-5

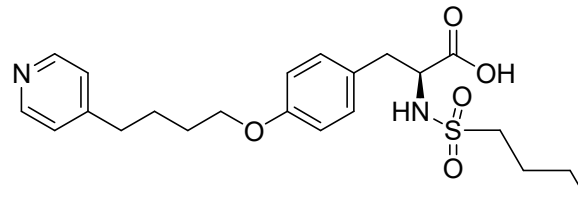
Impurities Related to Tirofiban

1a. L-n-butylsulfonyl-p-hydroxyphenylalanine



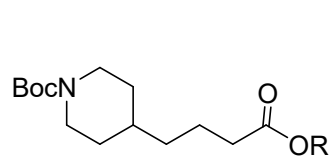
CAS:149490-60-8

1b. N-Butylsulfonyl-O-(4-(4-pyridinyl)butyl)-L-tyrosine

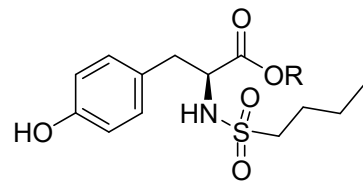


CAS:149490-61-9

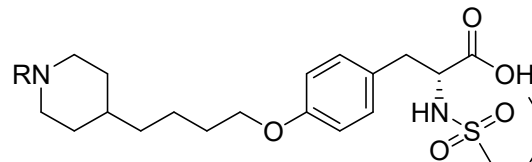
1c. Other possible impurities (chemical structures)



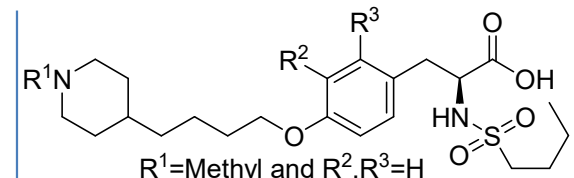
R=H, or Methyl



R= H, or Ethyl



R=H, or Boc

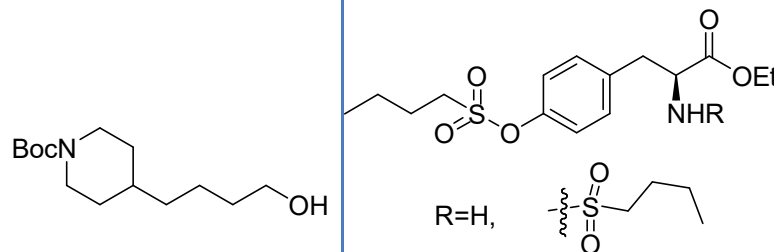


R¹=Methyl and R²,R³=H

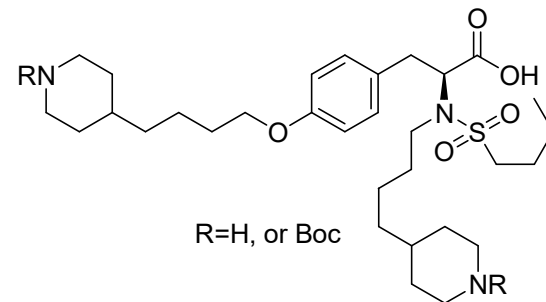
R¹= Acetyl and R²,R³=H

R¹= H and R²=Cl, R³=H

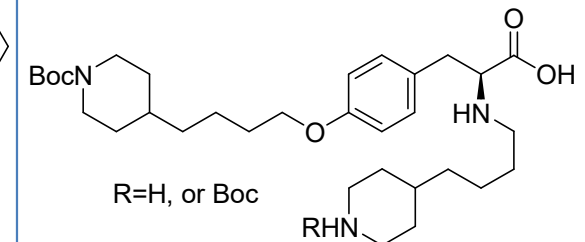
R¹= H and R²=H, R³=Cl



R=H,

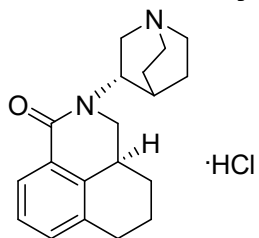


R=H, or Boc



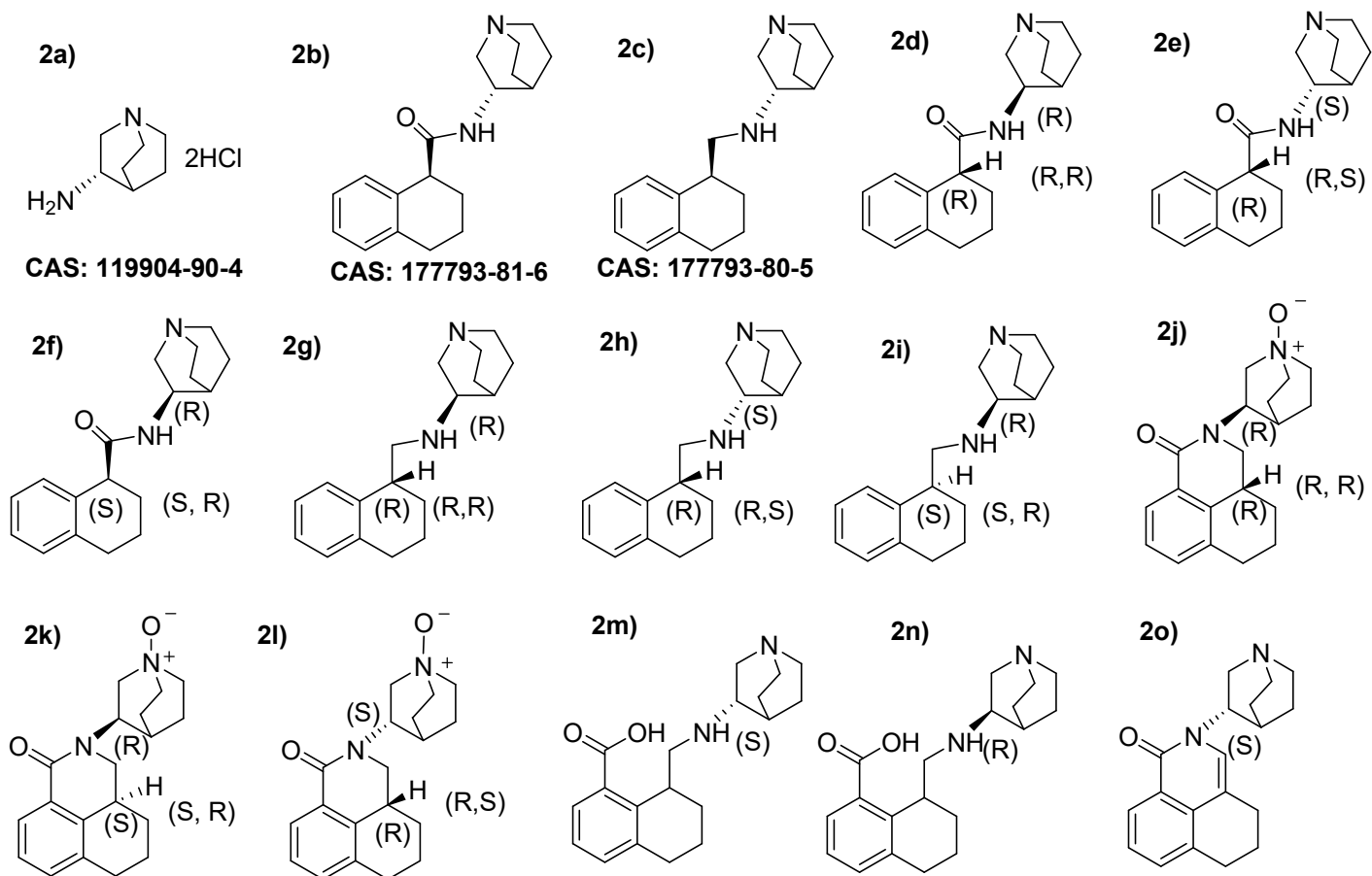
R=H, or Boc

2. Palonosetron Hydrochloride

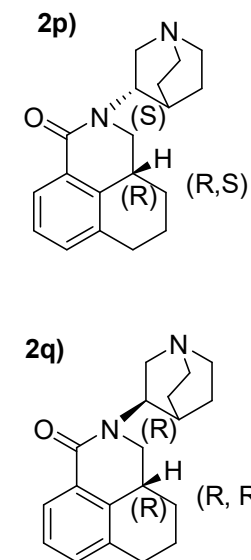


CAS: 135729-62-3

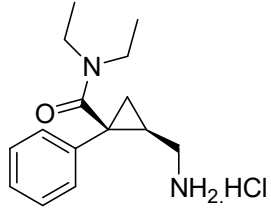
Impurities related to Palonosetron



API isomers



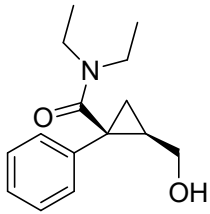
3. Levomilnacipran (hydrochloride)



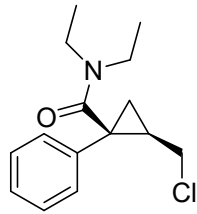
CAS: 175131-60-9

Intermediates and Impurities Related To Levomilnacipran

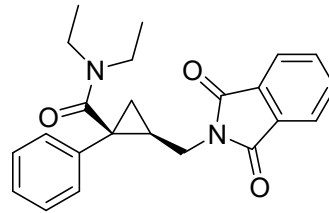
3a)



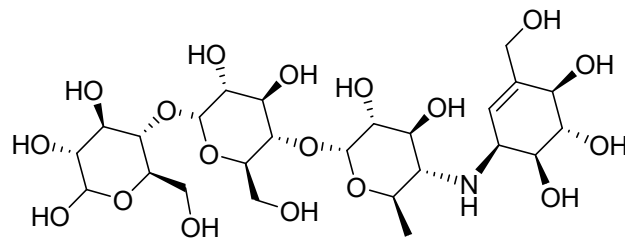
3b)



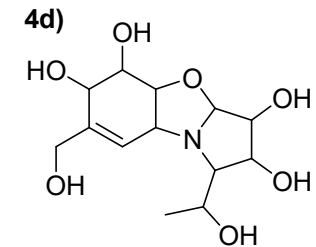
3c)



4. Acarbose

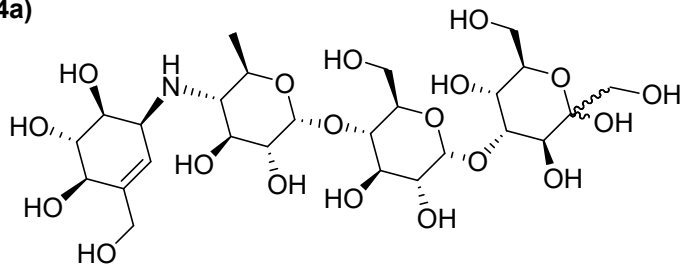


CAS:56180-94-0

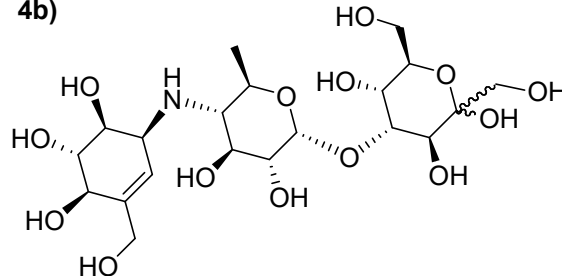


Impurities related to Acarbose

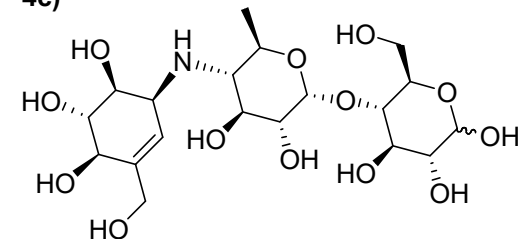
4a)



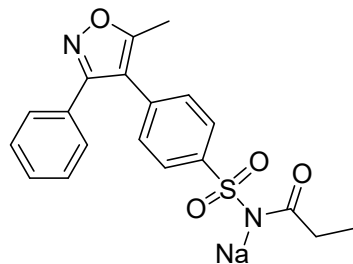
4b)



4c)



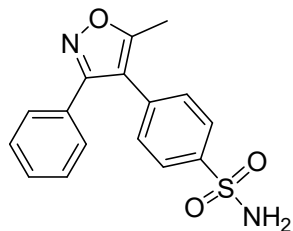
5. Parecoxib Na



CAS: 197502-82-2

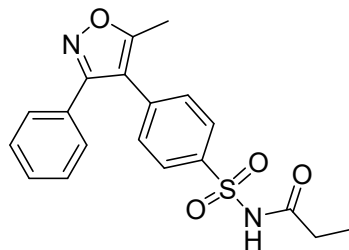
Impurities related to Parecoxib Na

5a) Valdecoxib



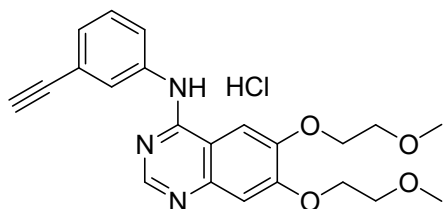
CAS 181695-72-7

5b) Parecoxib



CAS:198470-84-7

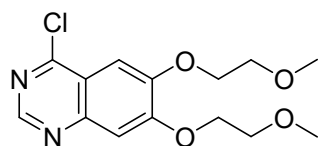
6. Erlotinib



CAS: 183321-74-6

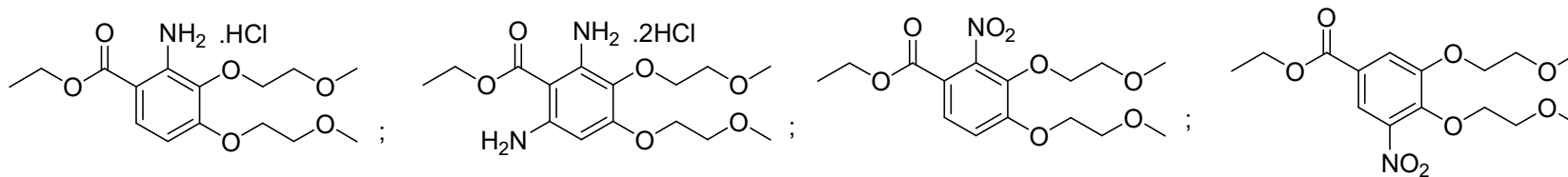
Impurities Related to Erlotinib

6a) CP-335963

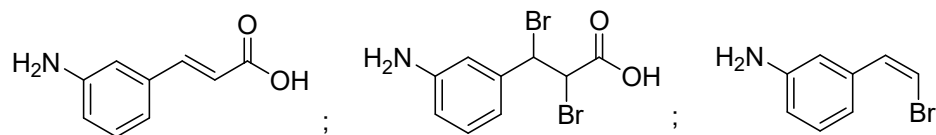


CAS: 183322-18-1

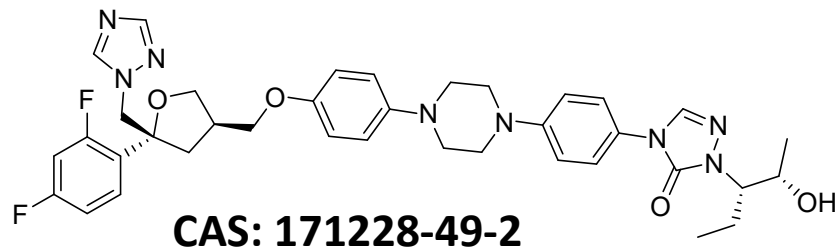
6b)



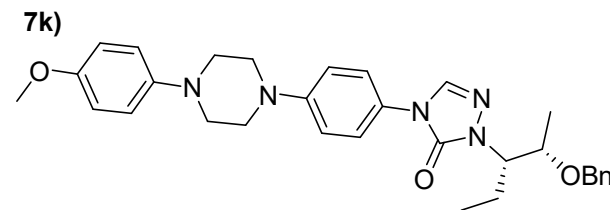
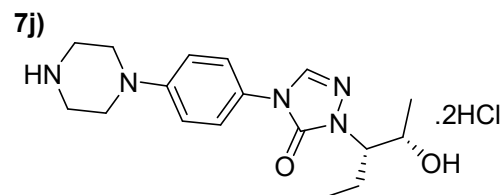
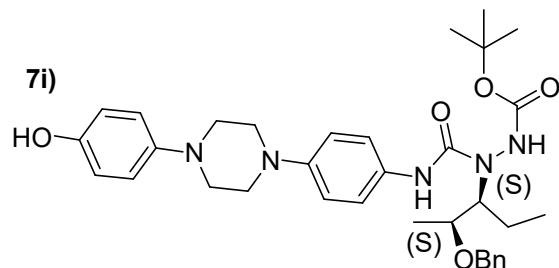
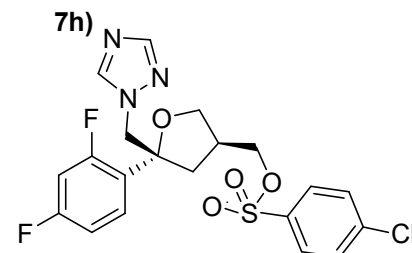
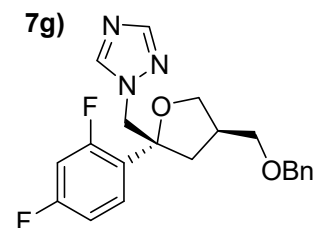
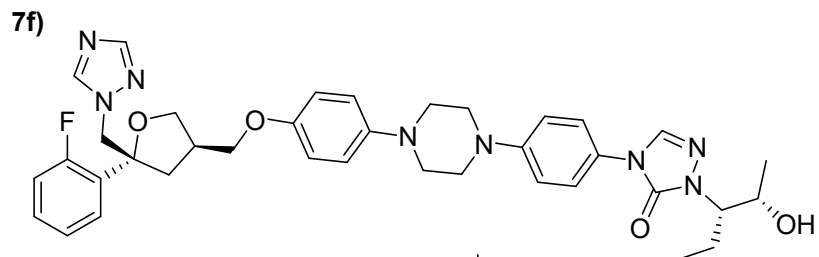
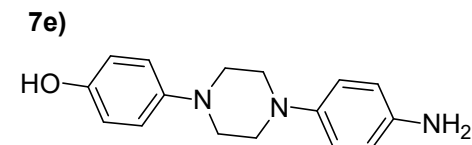
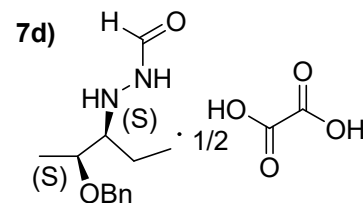
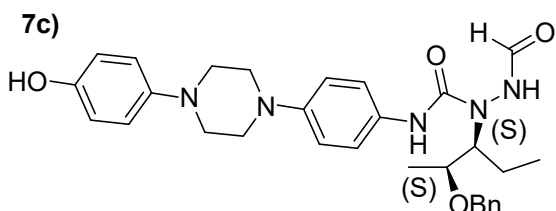
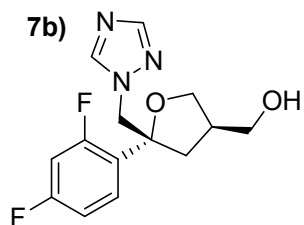
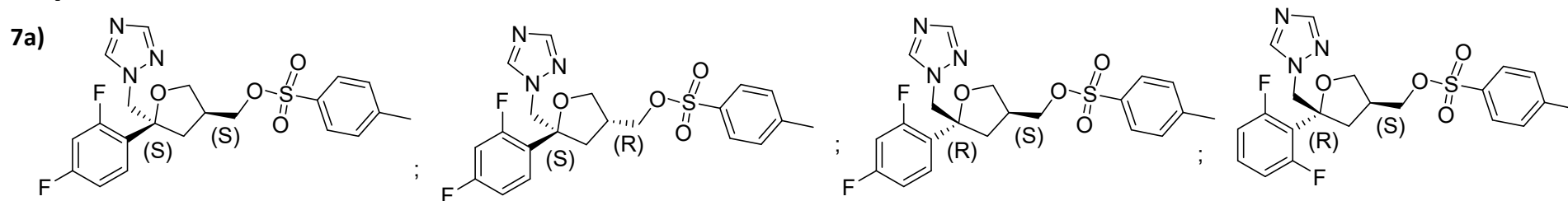
6c)



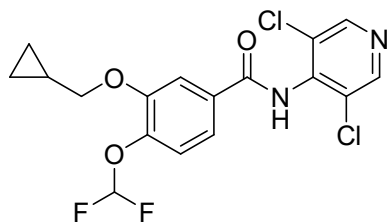
7. Posaconazole



Impurities Related to Posaconazole

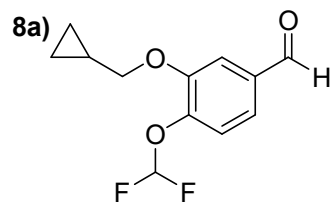


8. Roflumilast

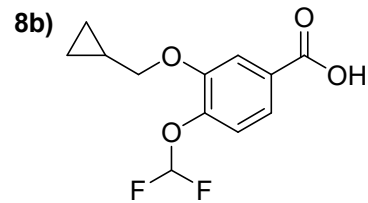


CAS:162401-32-3

Impurities Related to Roflumilast

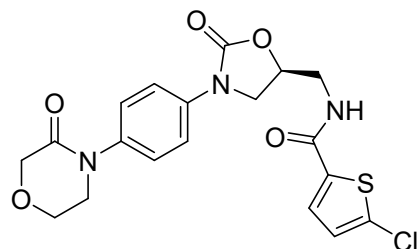


CAS: 151103-09-2



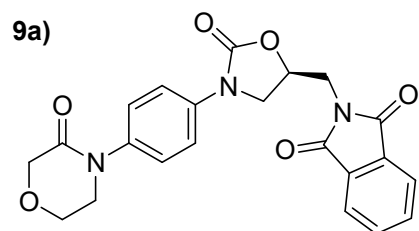
CAS:162401-62-9

9. Rivaroxaban

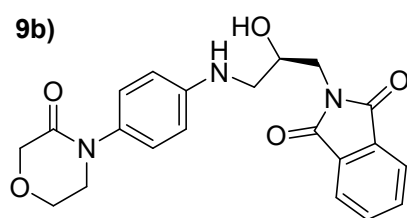


CAS: 366789-02-8

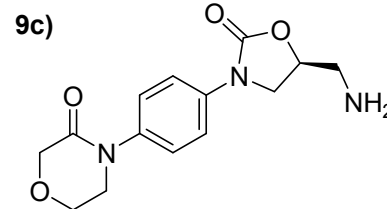
Impurities Related to Rivaroxaban



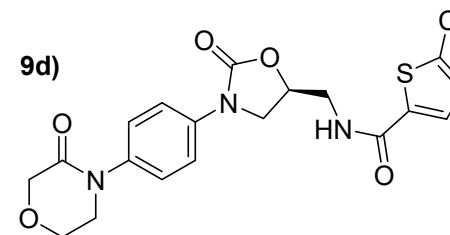
CAS: 44292-08-6



CAS: 44292-07-5

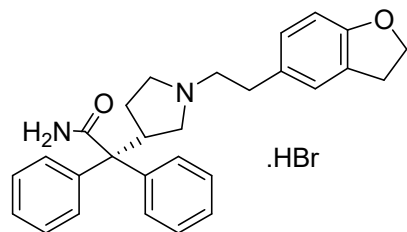


CAS: 44292-10-0



CAS: 366789-02-8

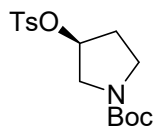
10. Darifenacin



CAS: 133099-07-7

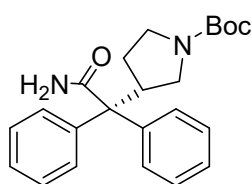
Impurities Related to Darifenacin

10a)



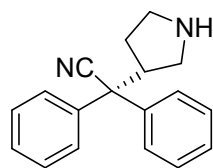
CAS: 371240-55-0

10b)



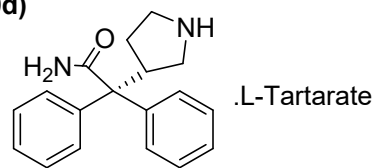
CAS: 1159977-31-7

10c)



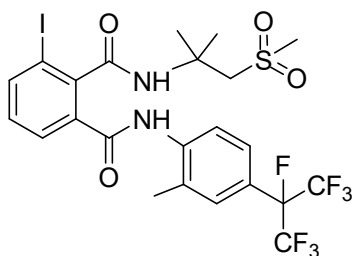
CAS: 134002-27-0

10d)



CAS: 134002-26-9

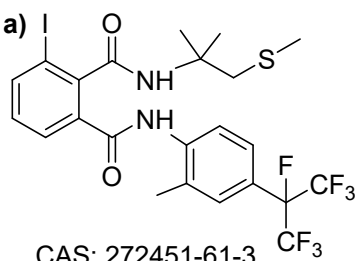
11. Flubendiamide



CAS: 272451-65-7

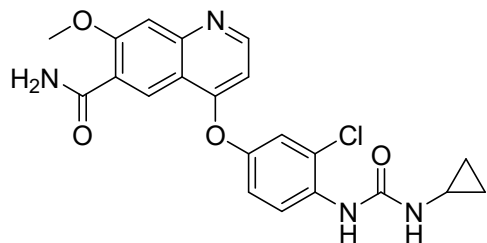
Impurities Related to Flubendiamide

11a)



CAS: 272451-61-3

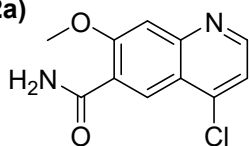
12. Lenvatinib



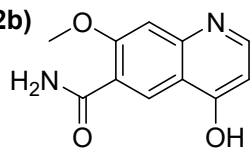
CAS: 417716-92-8

Impurities Related to Flubendiamide

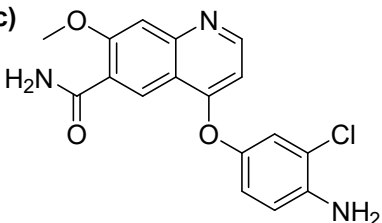
12a)



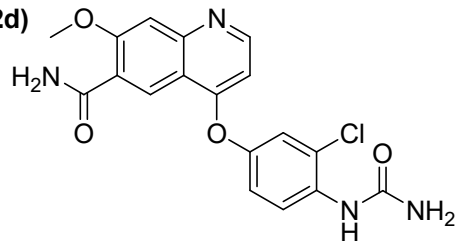
12b)



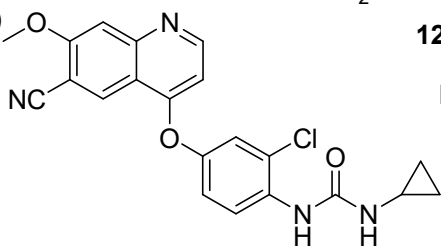
12c)



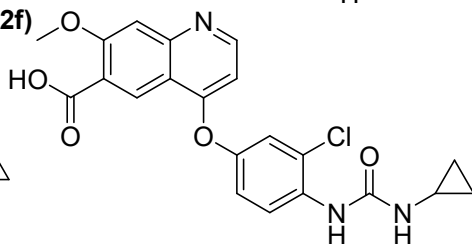
12d)



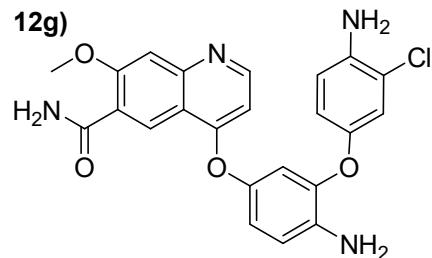
12e)



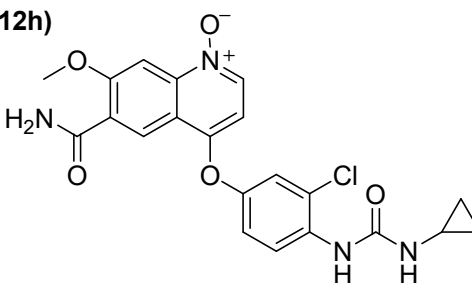
12f)



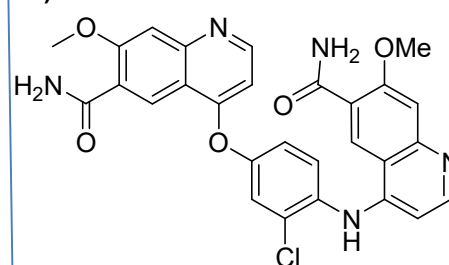
12g)



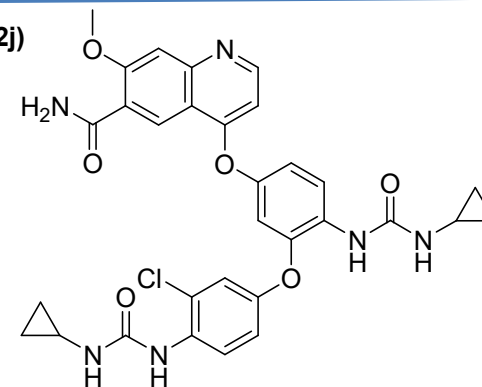
12h)



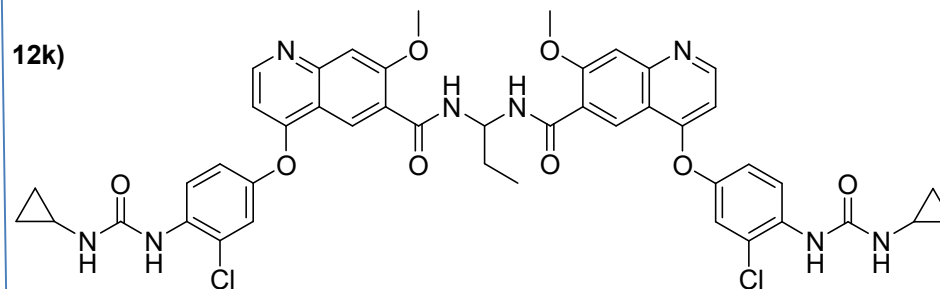
12i)



12j)



12k)



12l)

