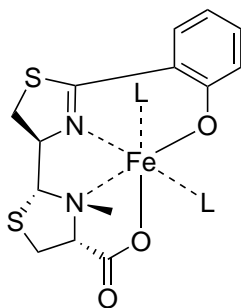
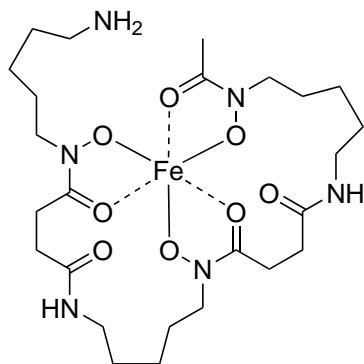


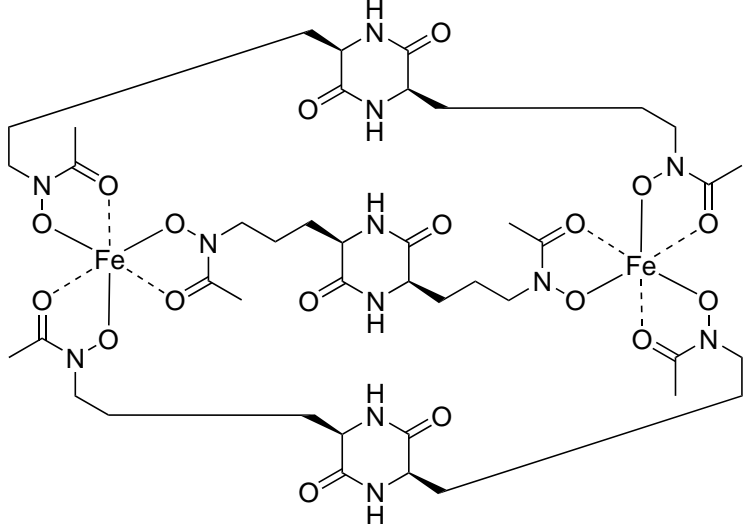
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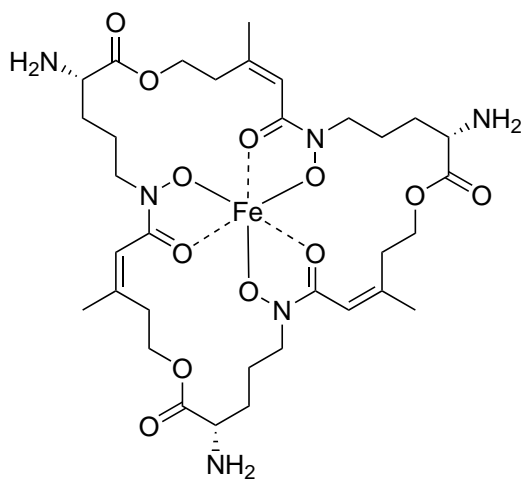
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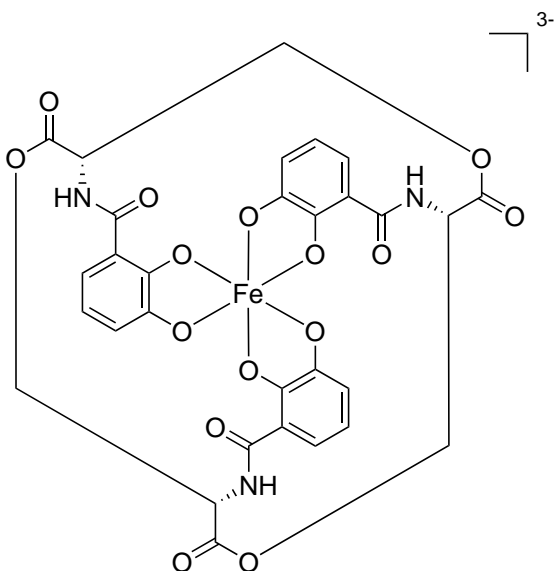
Deferoxamine B
1



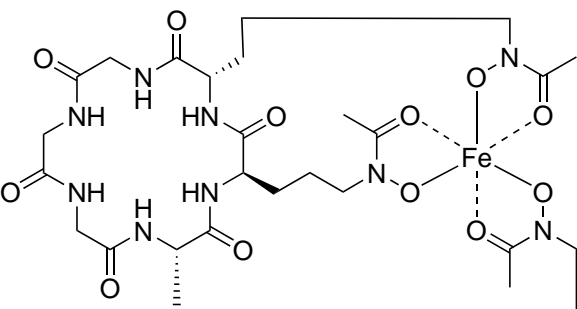
Rhodotorulic acid
2



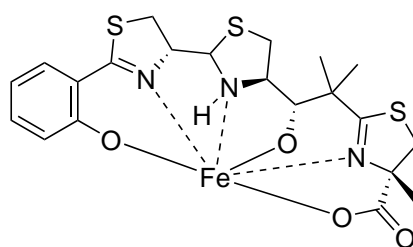
Fusarinine C
3



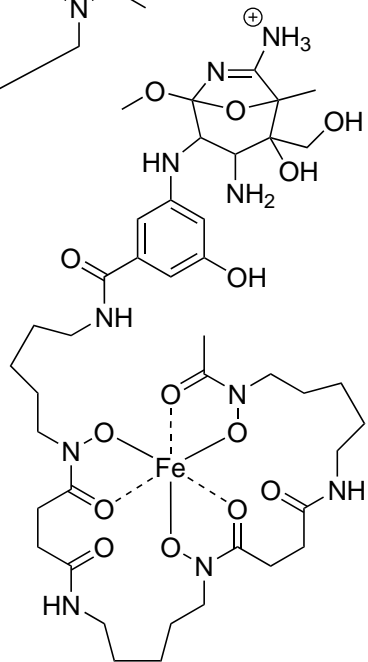
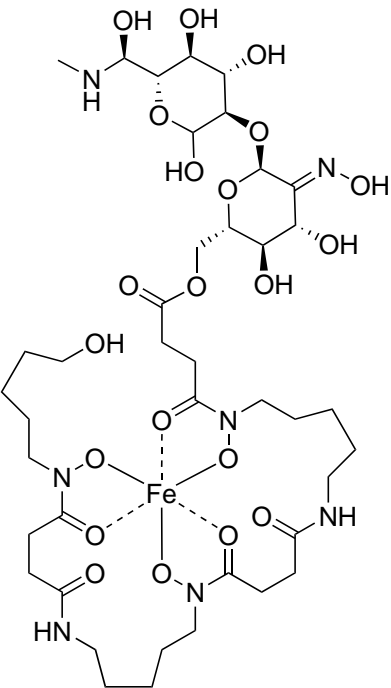
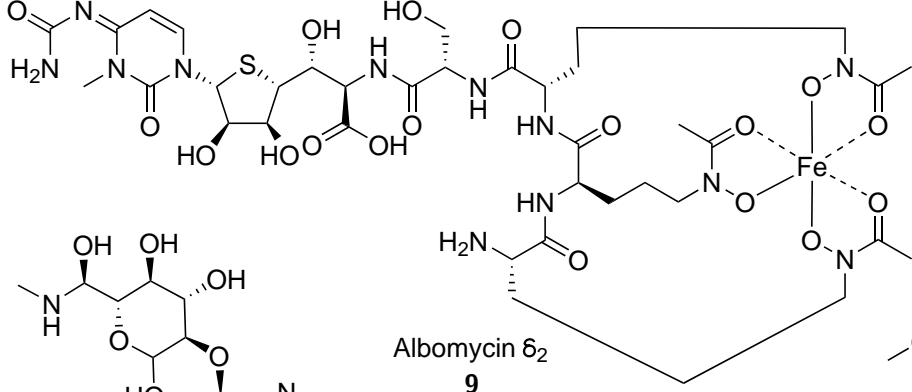
Enterobactin
4

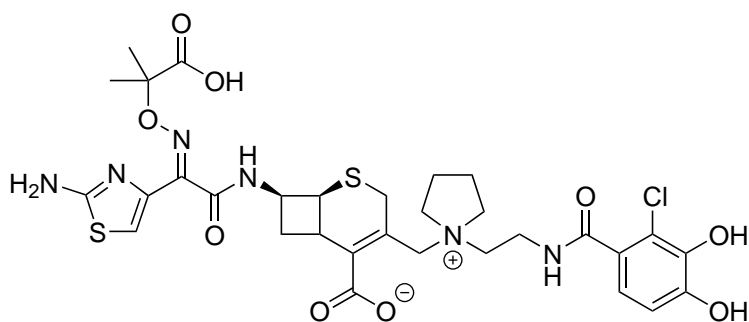
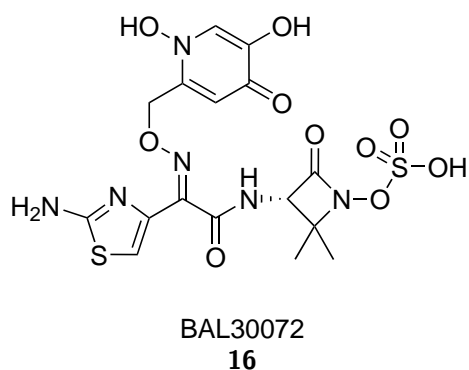
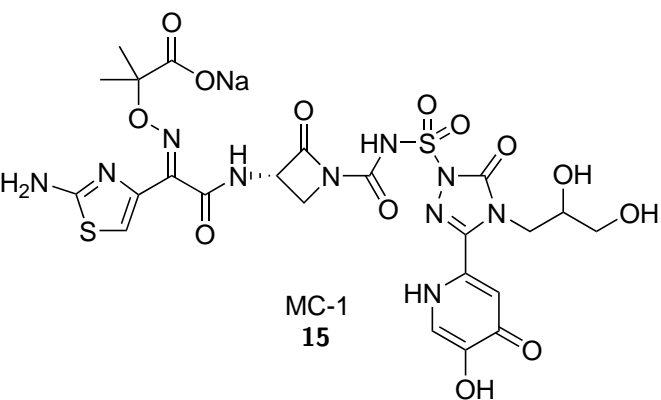
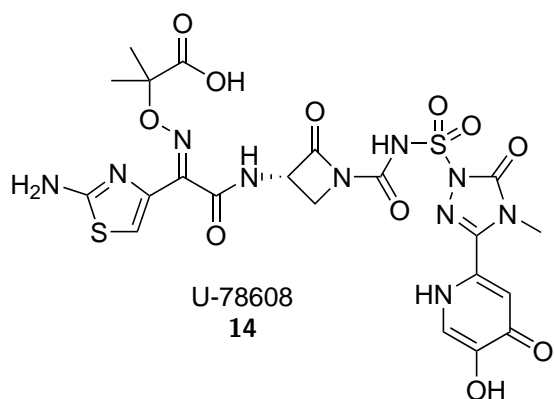
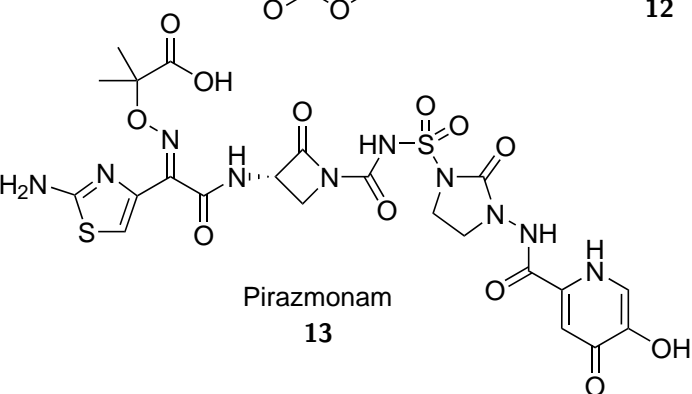
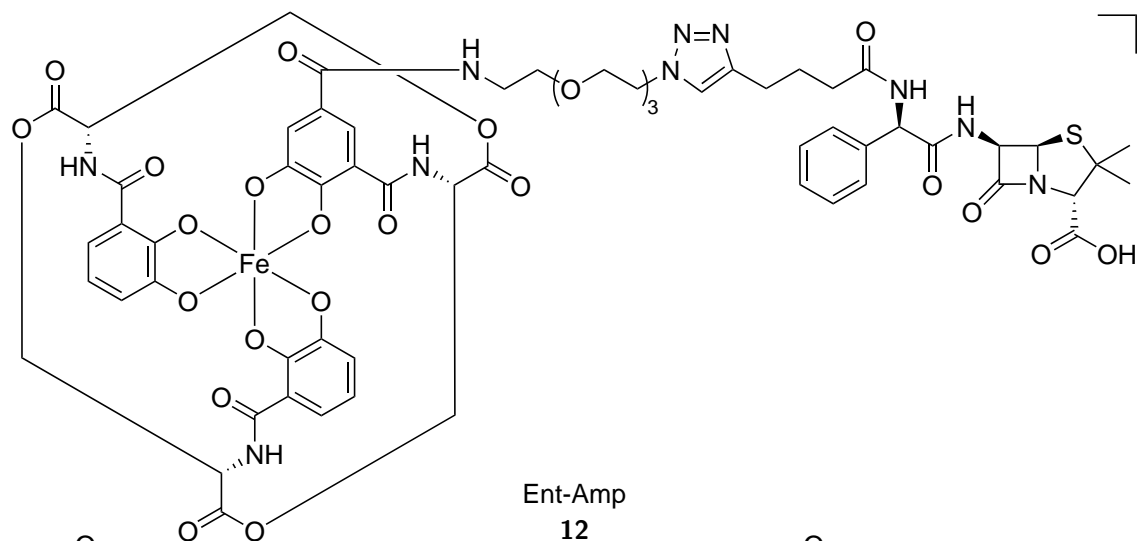


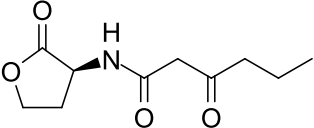
Ferrichrome
5

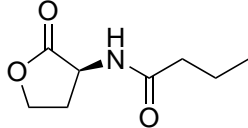


Yersiniabactin
6

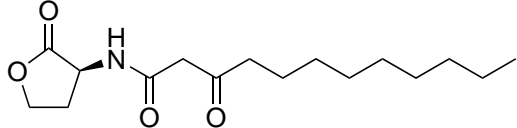




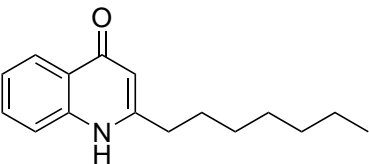




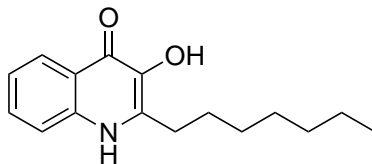
C₄-HSL
19



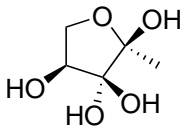
3-oxo-C₁₂-HSL
20



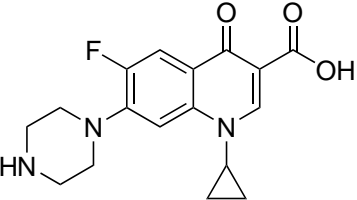
HHQ
21



PQS
22

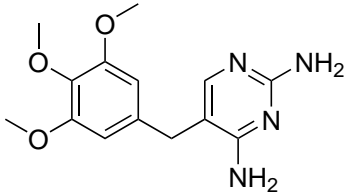


Al-2
23



Ciprofloxacin

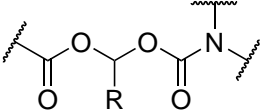
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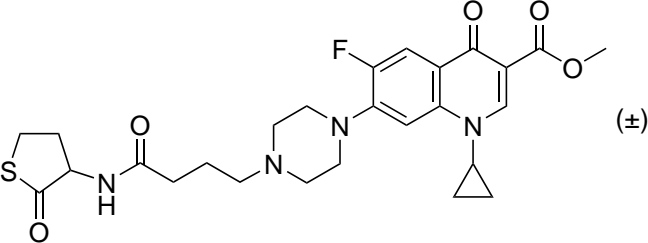


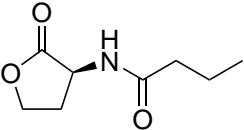
Trimethoprim

25



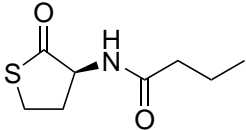






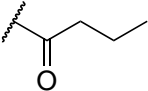
C₄-HSL

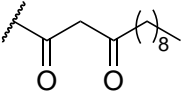
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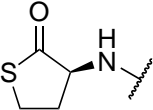


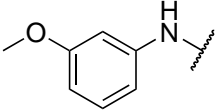
C₄-HCTL

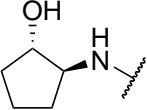
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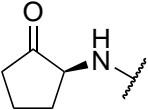


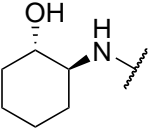


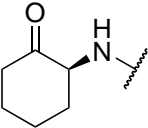


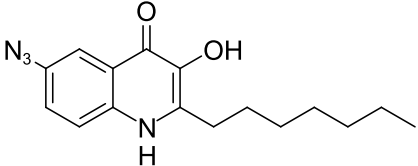
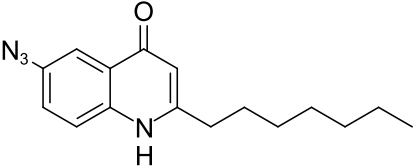


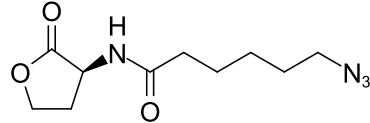
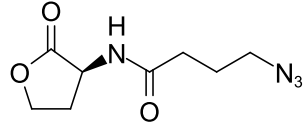
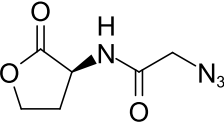


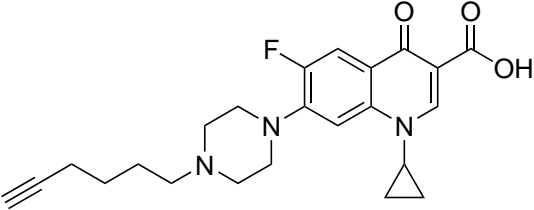




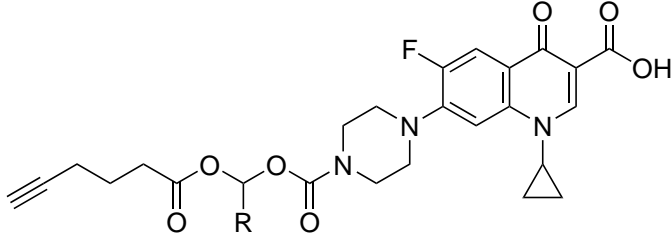






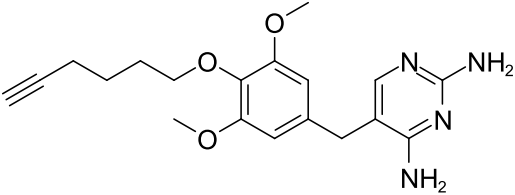


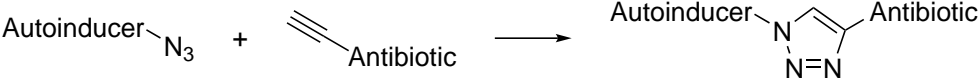
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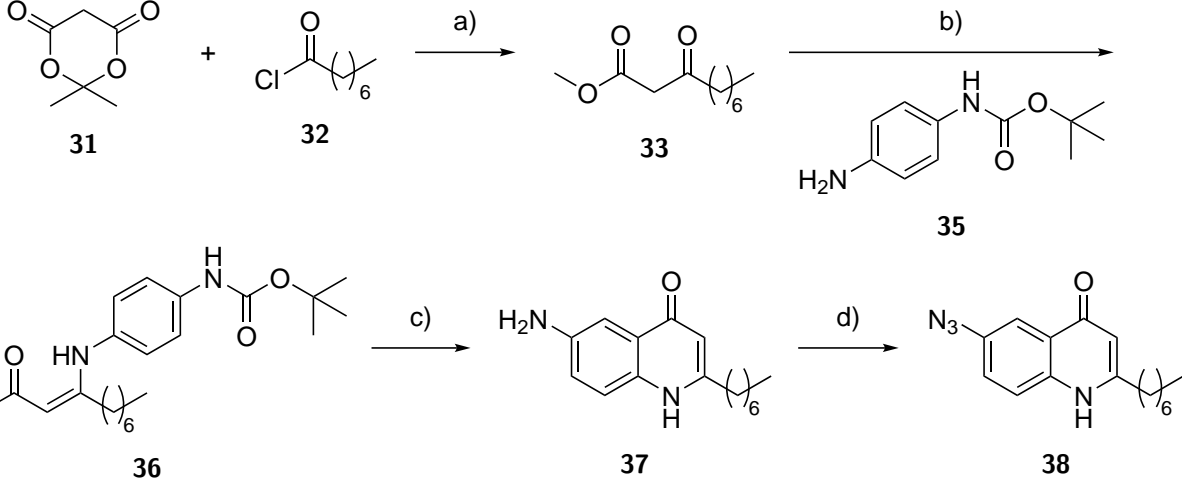


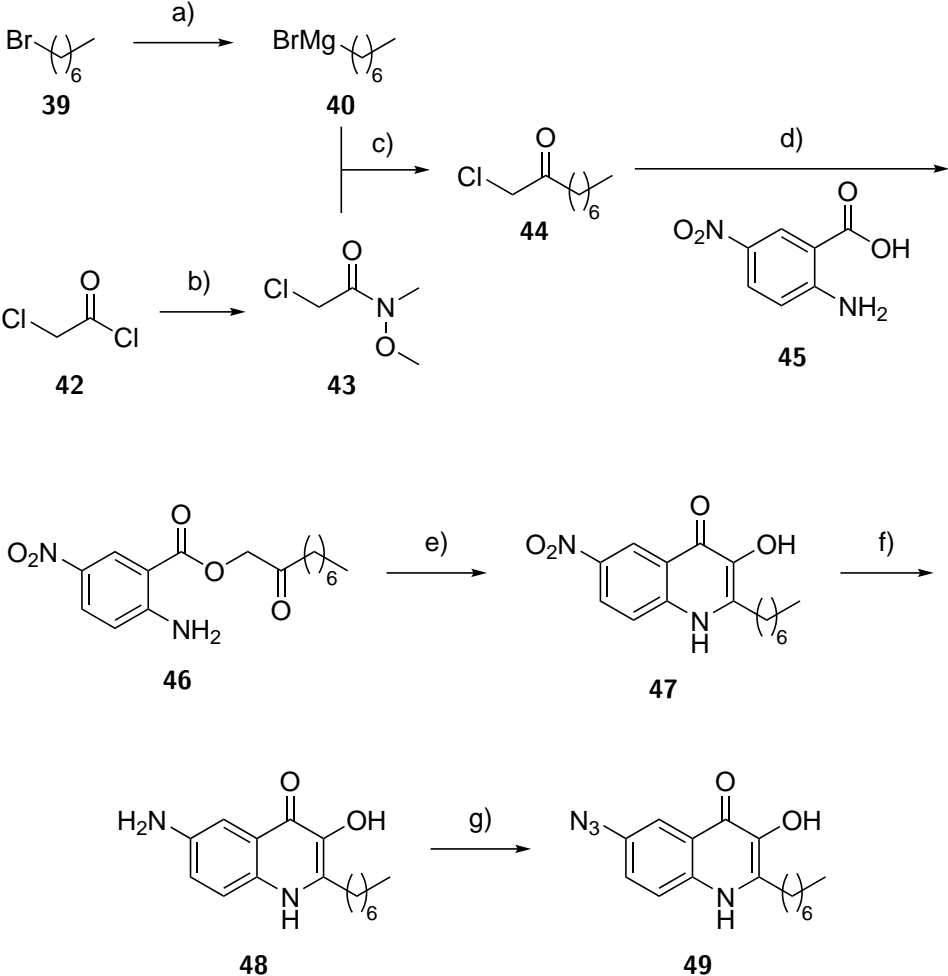
R = H 90

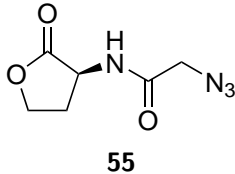
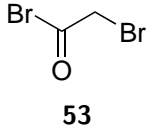
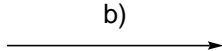
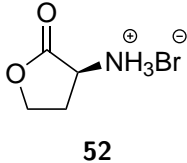
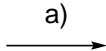
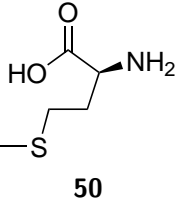
R = Me 91

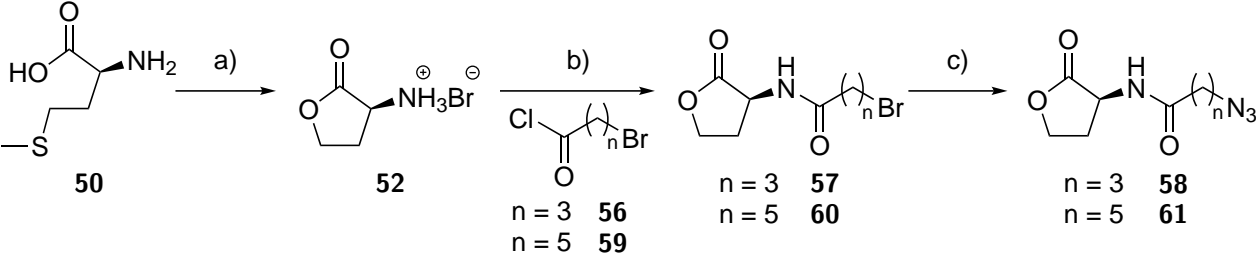


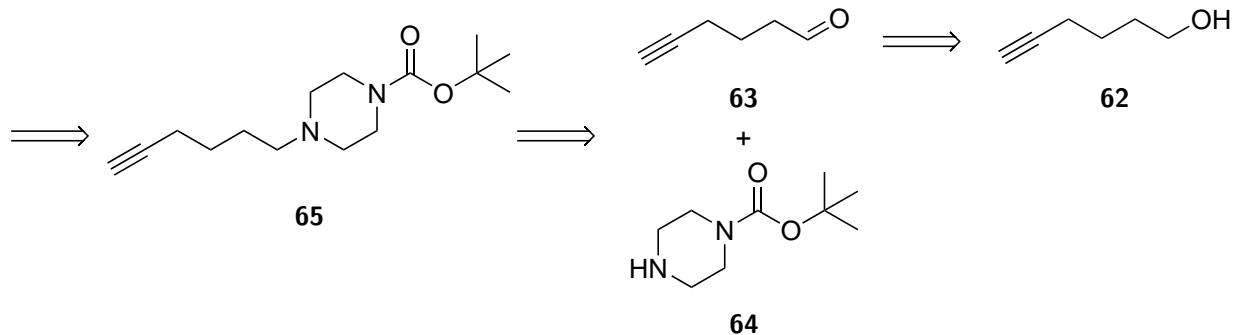
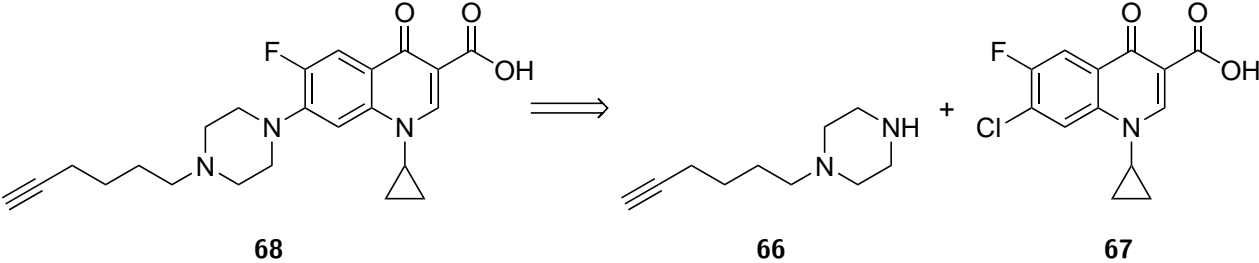


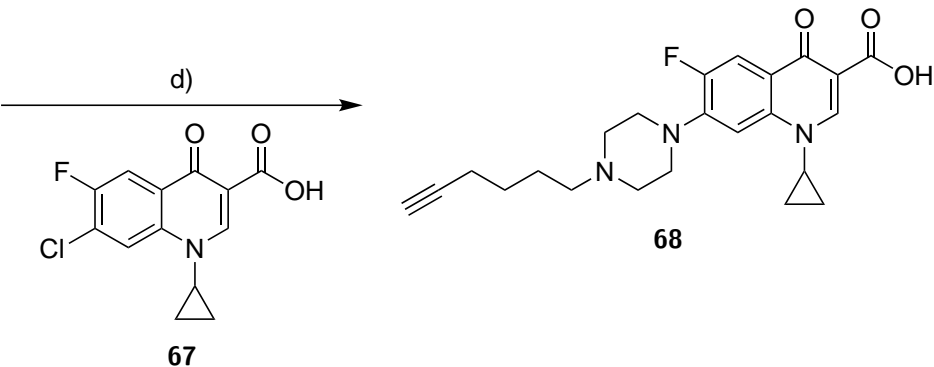
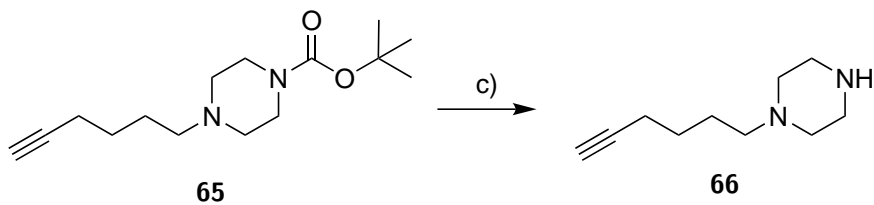
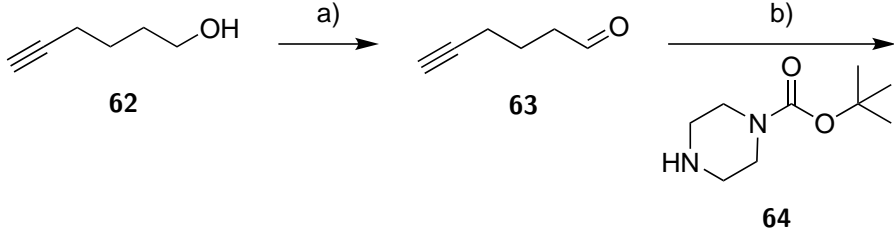


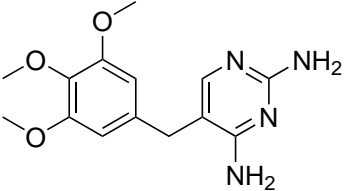




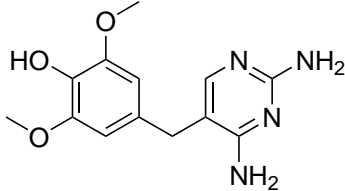
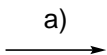




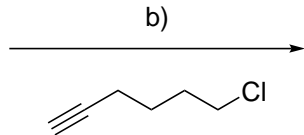




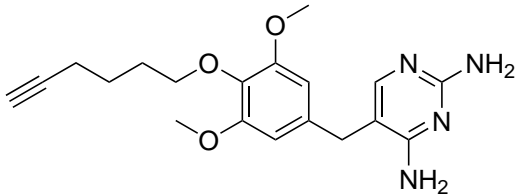
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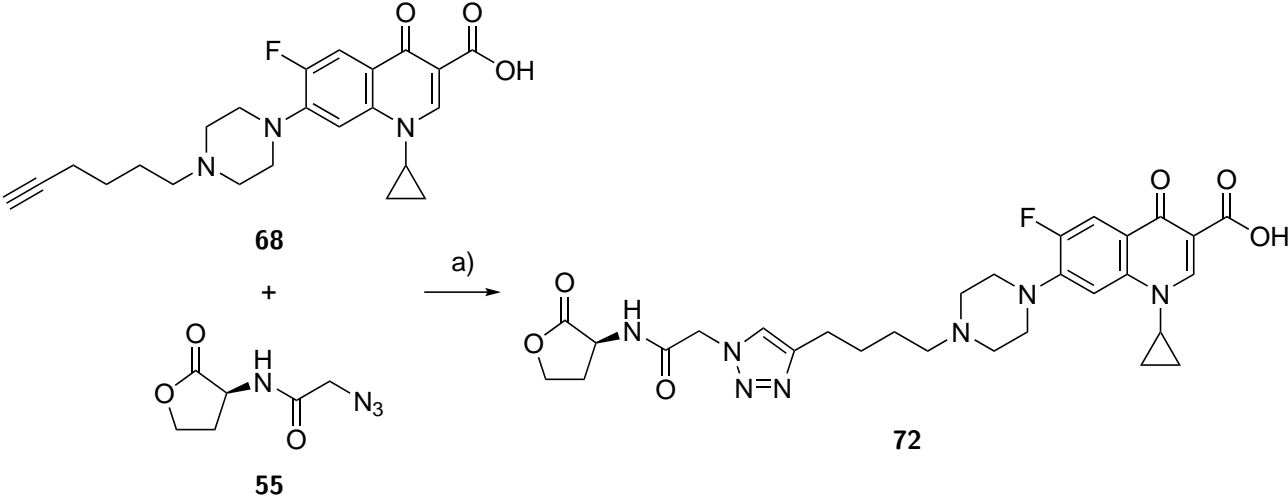
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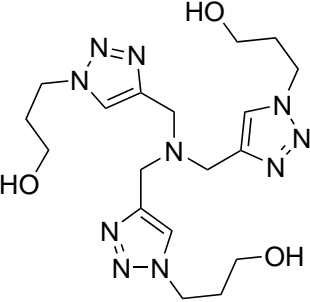


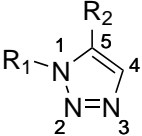
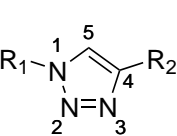
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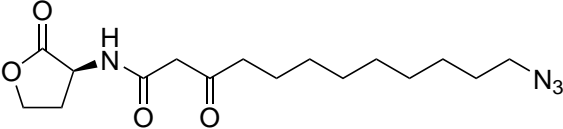


71

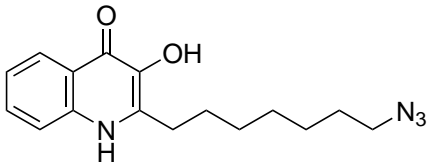




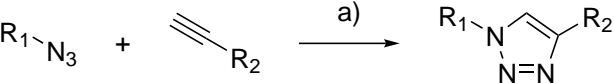


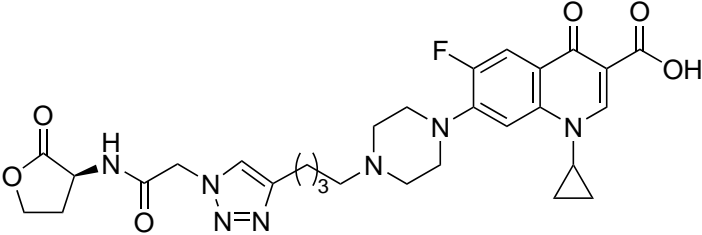


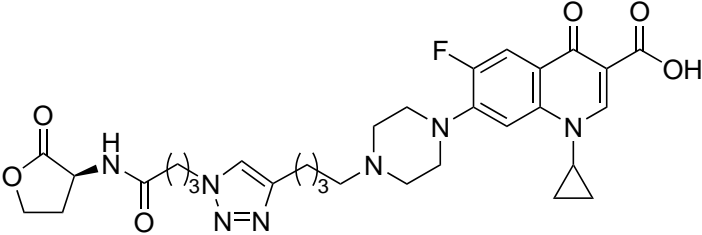
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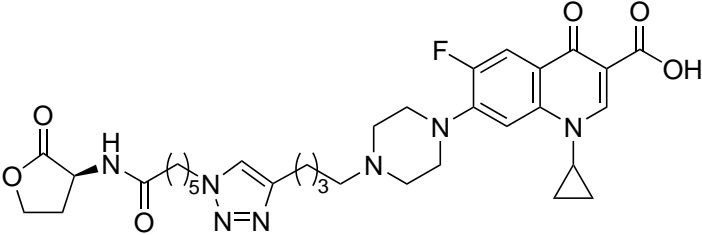


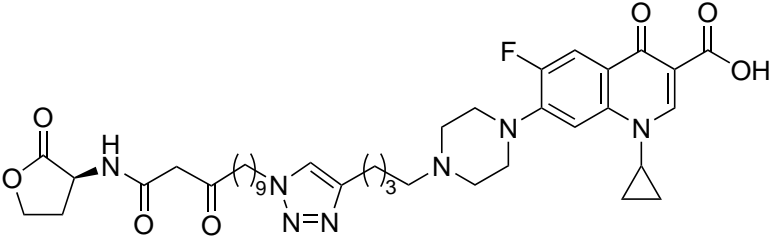
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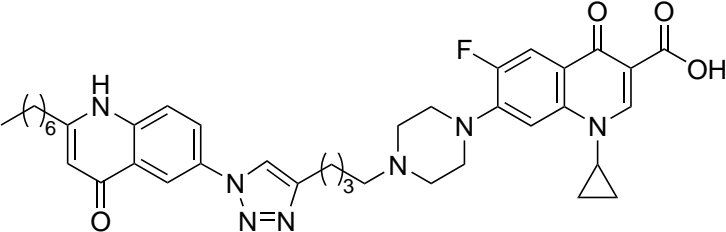


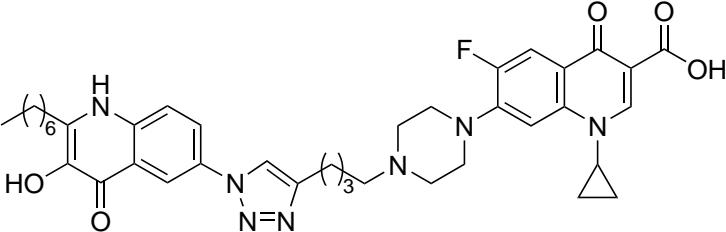


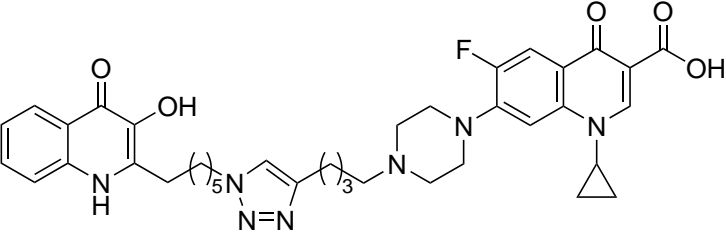


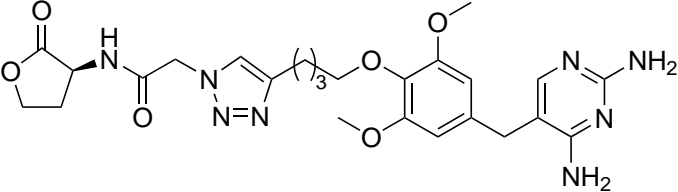


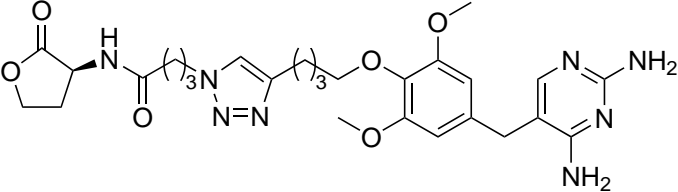


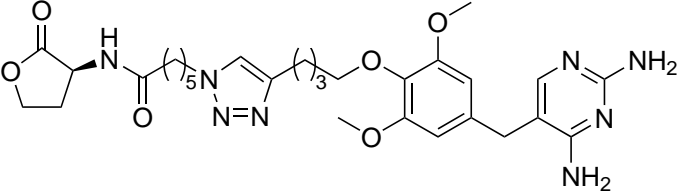


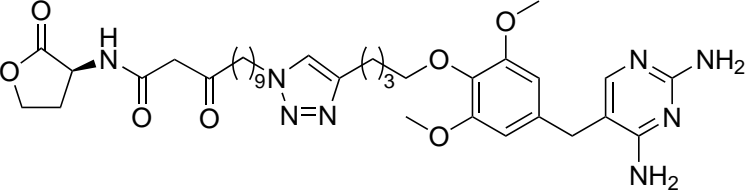


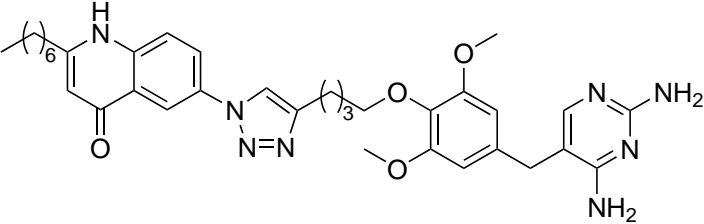


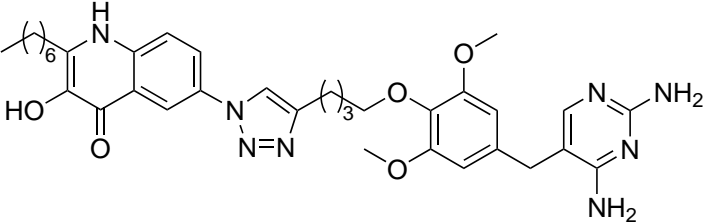


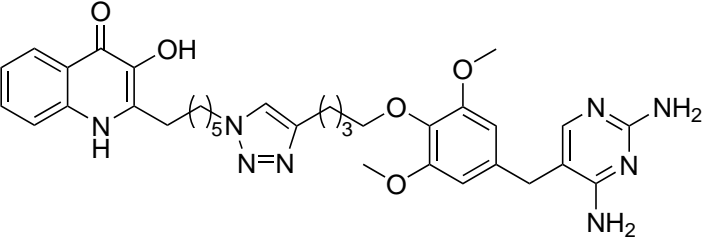


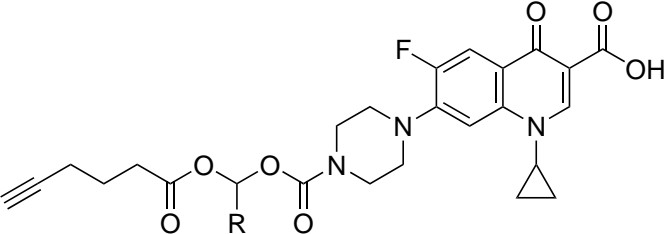






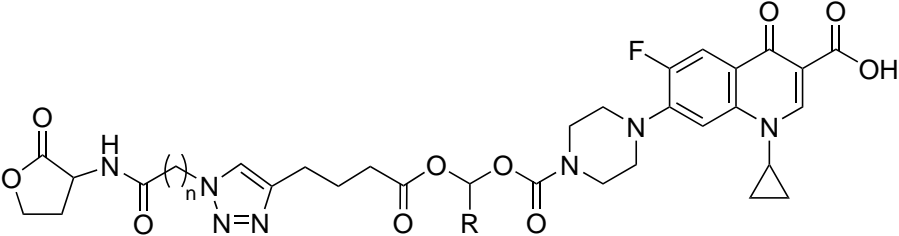






$R = H$ **90**

$R = Me$ **91**



$n = 1, \text{ R} = \text{H}$ **92**

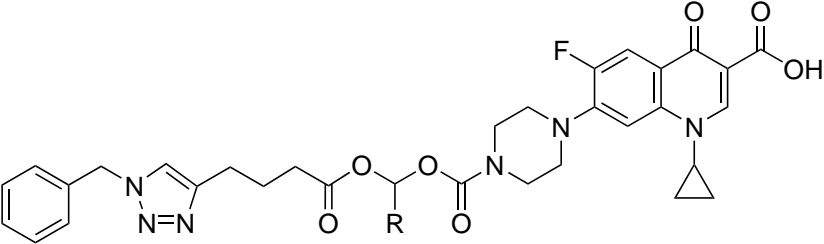
$n = 3, \text{ R} = \text{H}$ **93**

$n = 5, \text{ R} = \text{H}$ **94**

$n = 1, \text{ R} = \text{Me}$ **95**

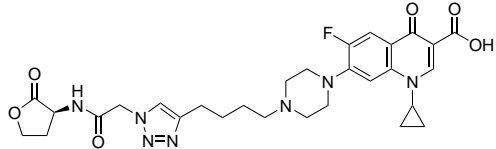
$n = 3, \text{ R} = \text{Me}$ **96**

$n = 5, \text{ R} = \text{Me}$ **97**

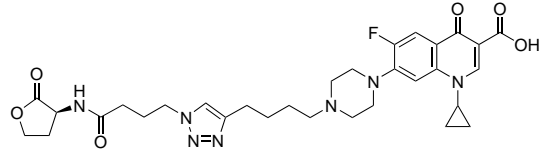


$\text{R} = \text{H}$ **98**

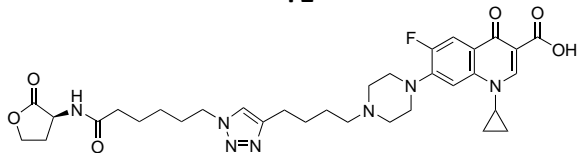
$\text{R} = \text{Me}$ **99**



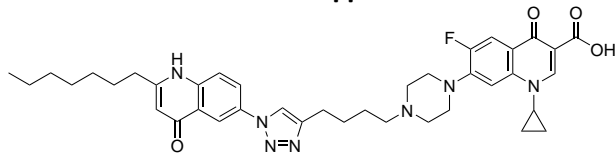
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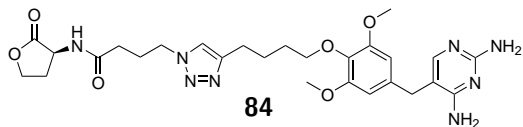
77



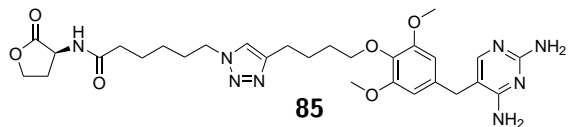
78



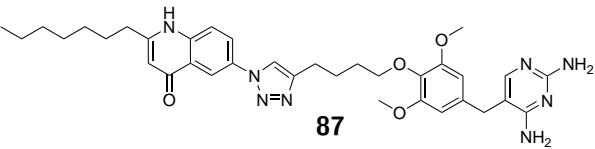
80



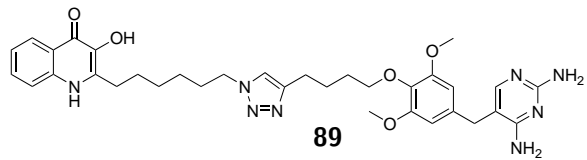
84



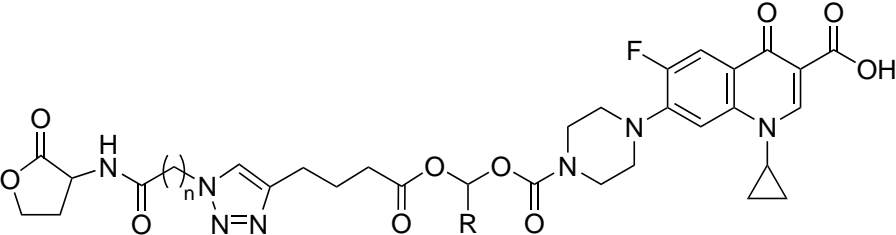
85



87



89



$n = 1, \text{R} = \text{H}$ **92**

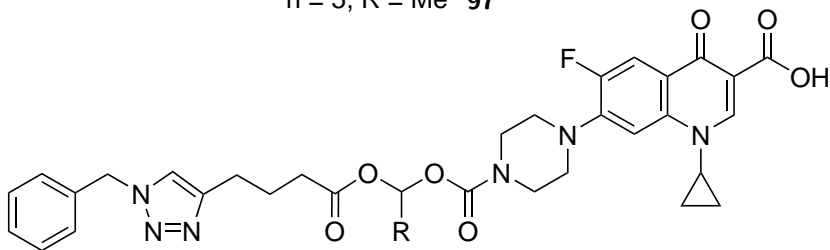
$n = 3, \text{R} = \text{H}$ **93**

$n = 5, \text{R} = \text{H}$ **94**

$n = 1, \text{R} = \text{Me}$ **95**

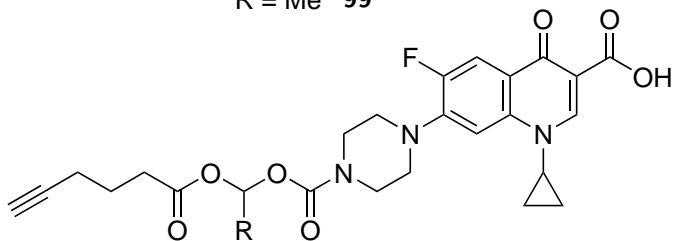
$n = 3, \text{R} = \text{Me}$ **96**

$n = 5, \text{R} = \text{Me}$ **97**



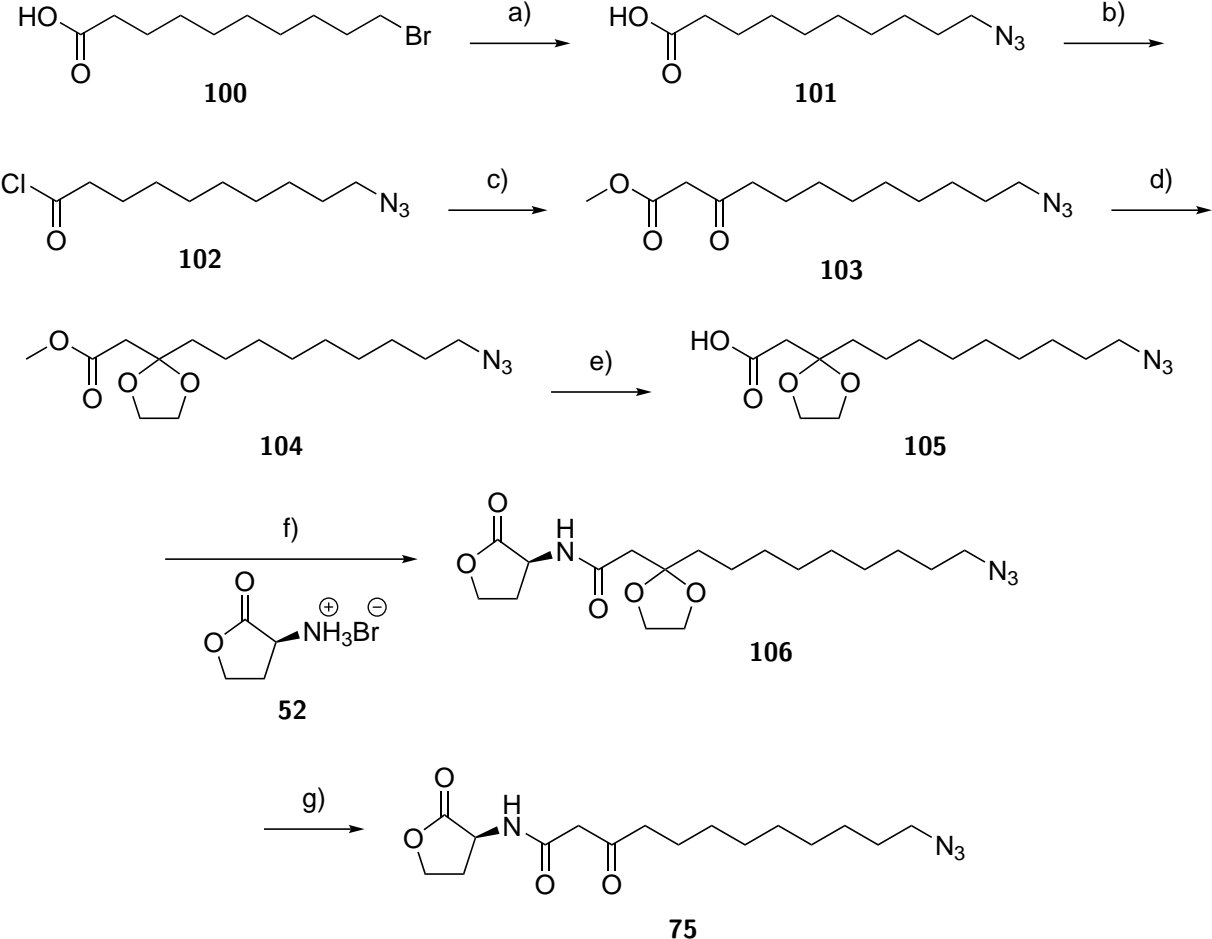
$\text{R} = \text{H}$ **98**

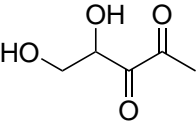
$\text{R} = \text{Me}$ **99**



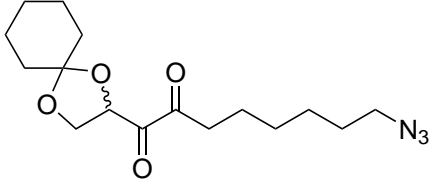
$\text{R} = \text{H}$ **90**

$\text{R} = \text{Me}$ **91**

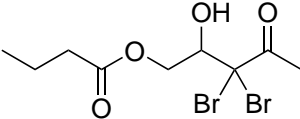




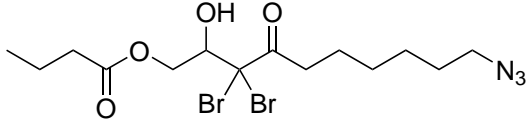
Al-2
23



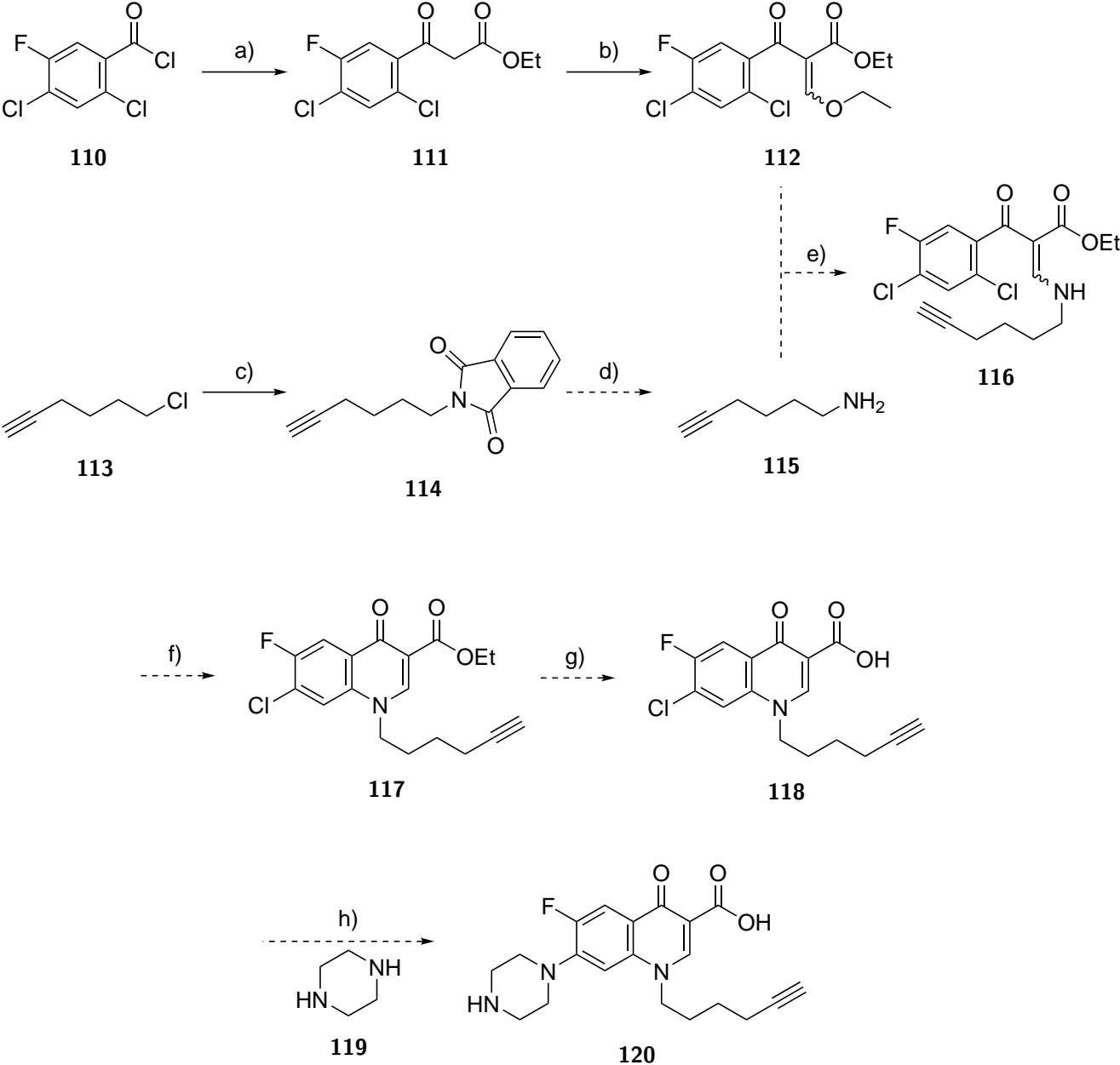
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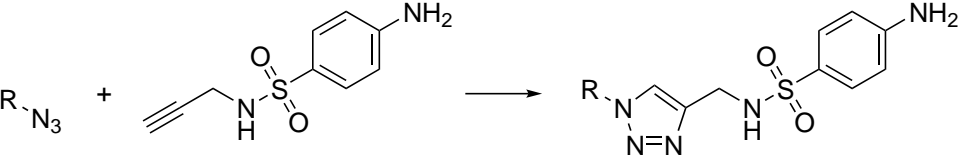


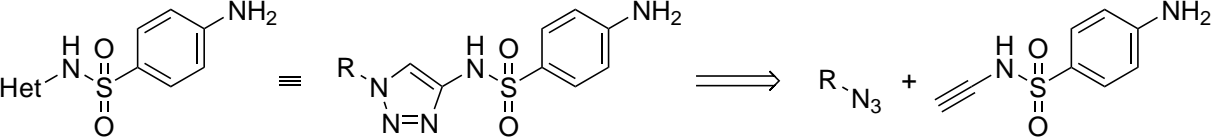
108

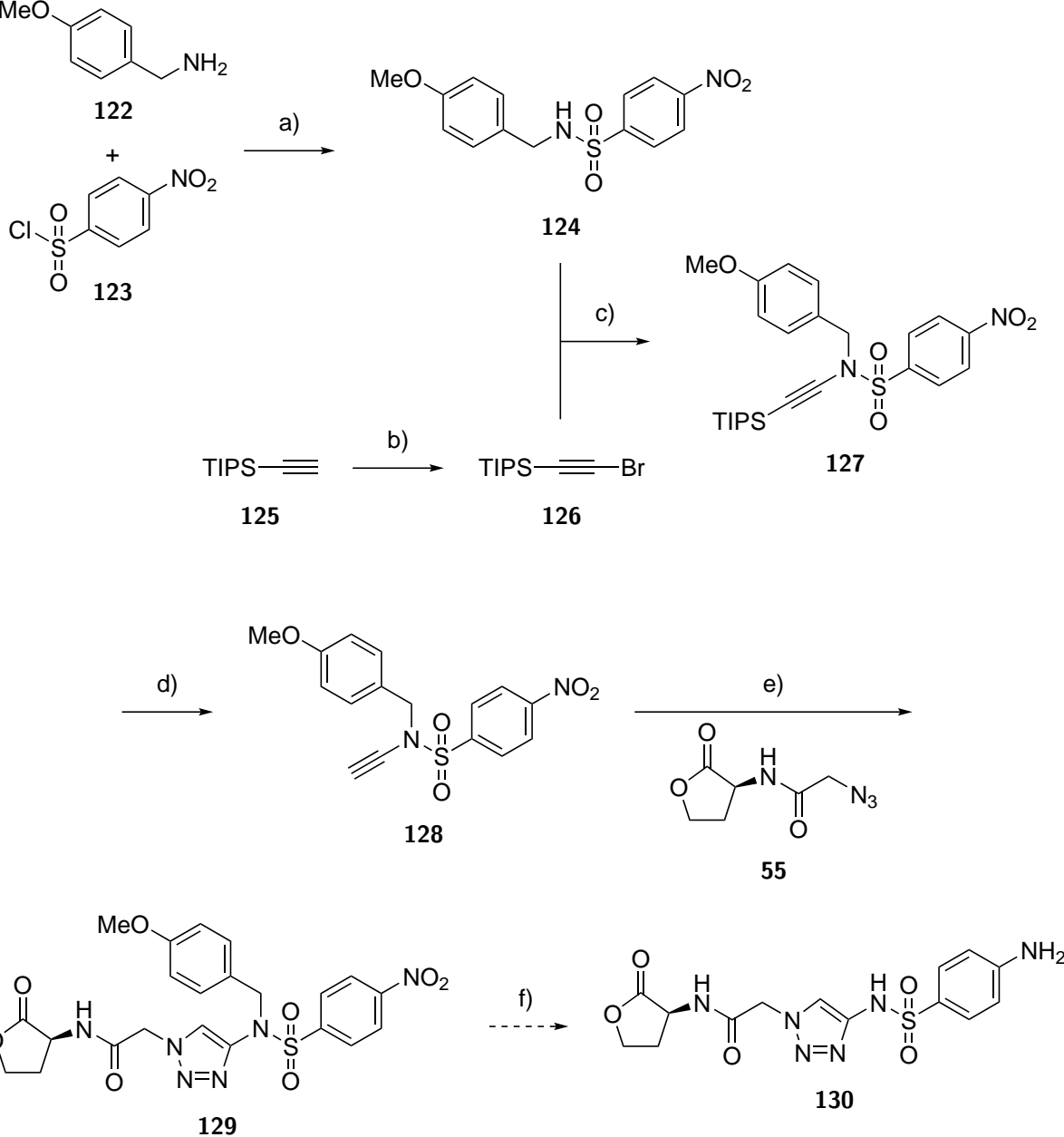


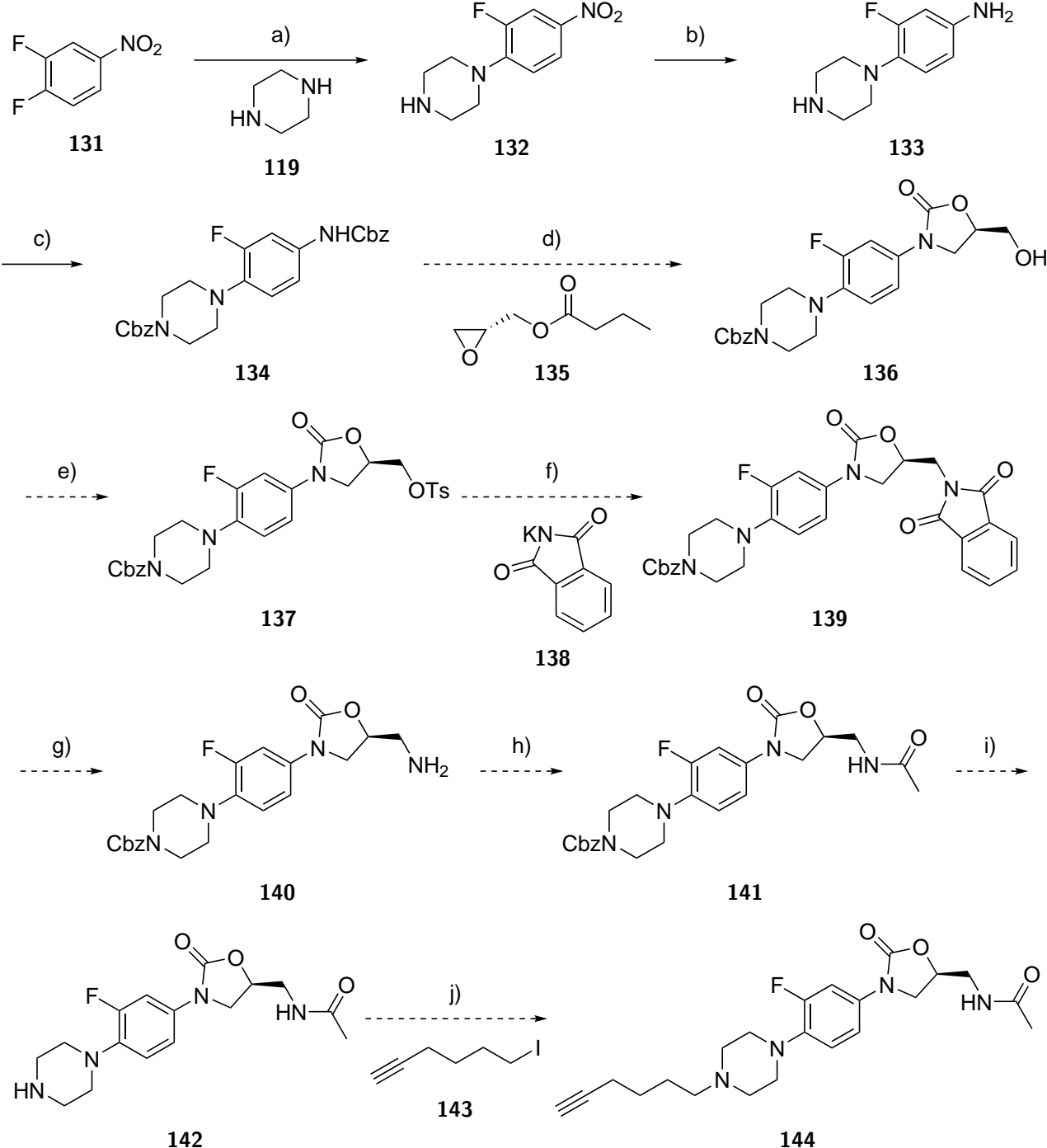
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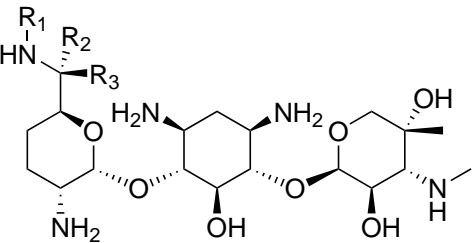




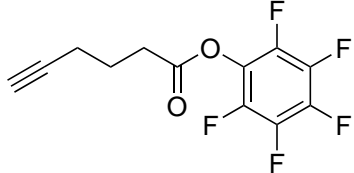






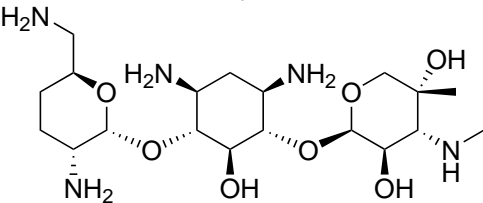


Gentamicin	R_1	R_2	R_3
C1	Me	Me	H
C1a	H	H	H
C2	H	Me	H
C2a	H	H	Me
C2b	Me	H	H

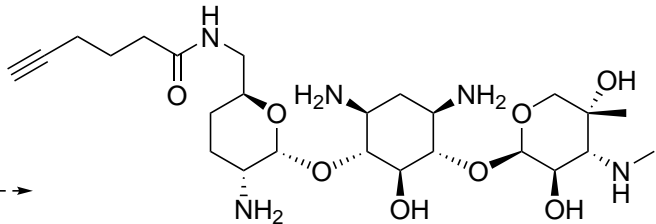
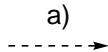


145

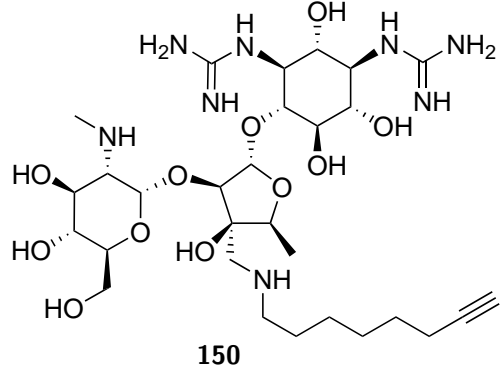
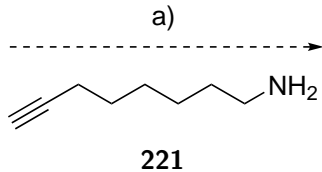
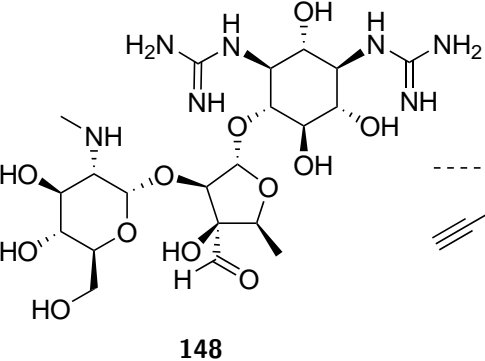
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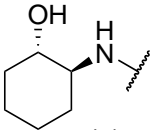
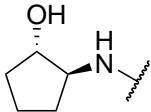
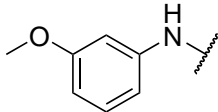
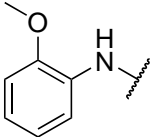
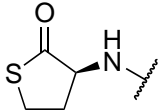


146

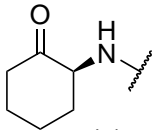


147



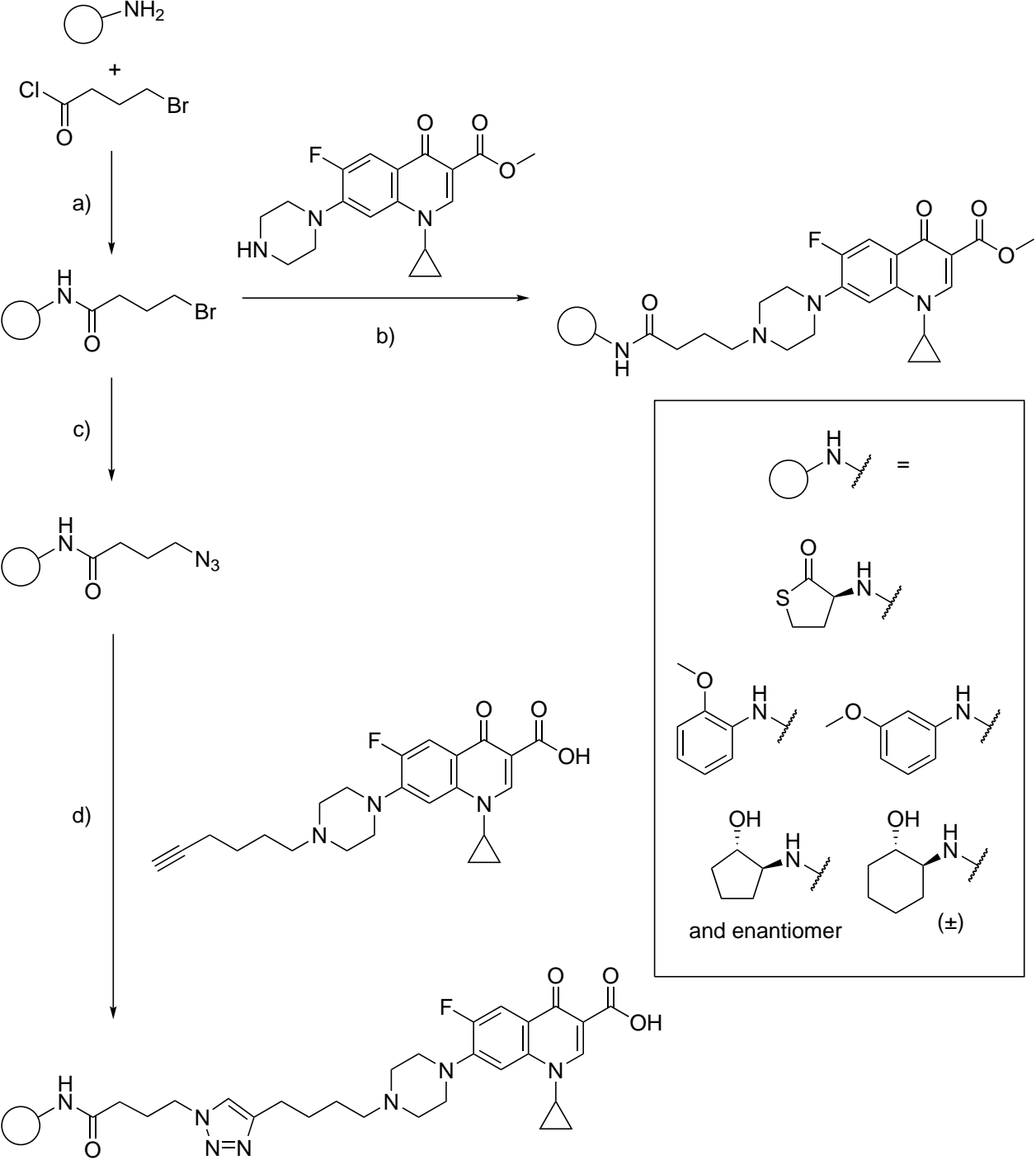


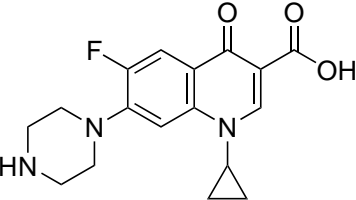
(±)



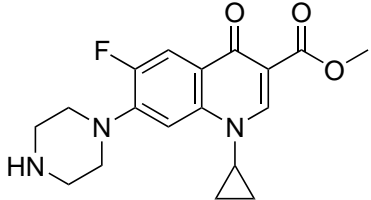
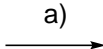
(±)

and enantiomer

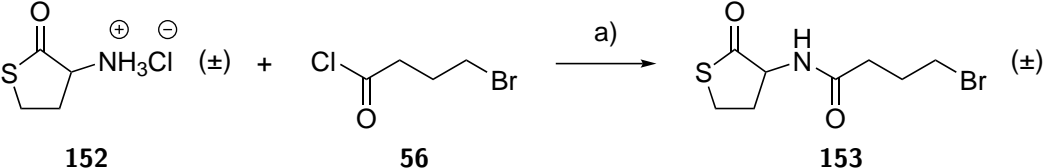


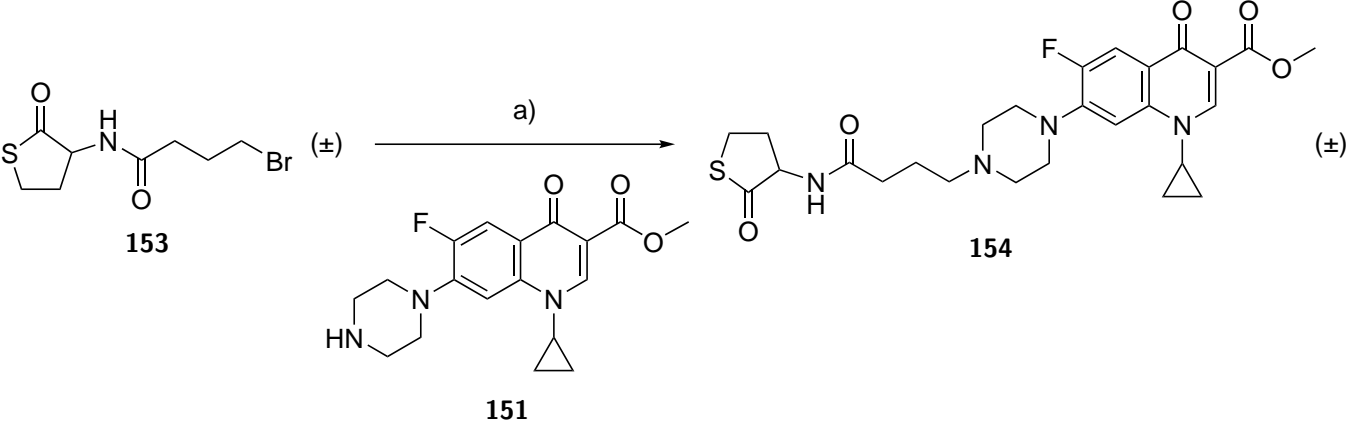


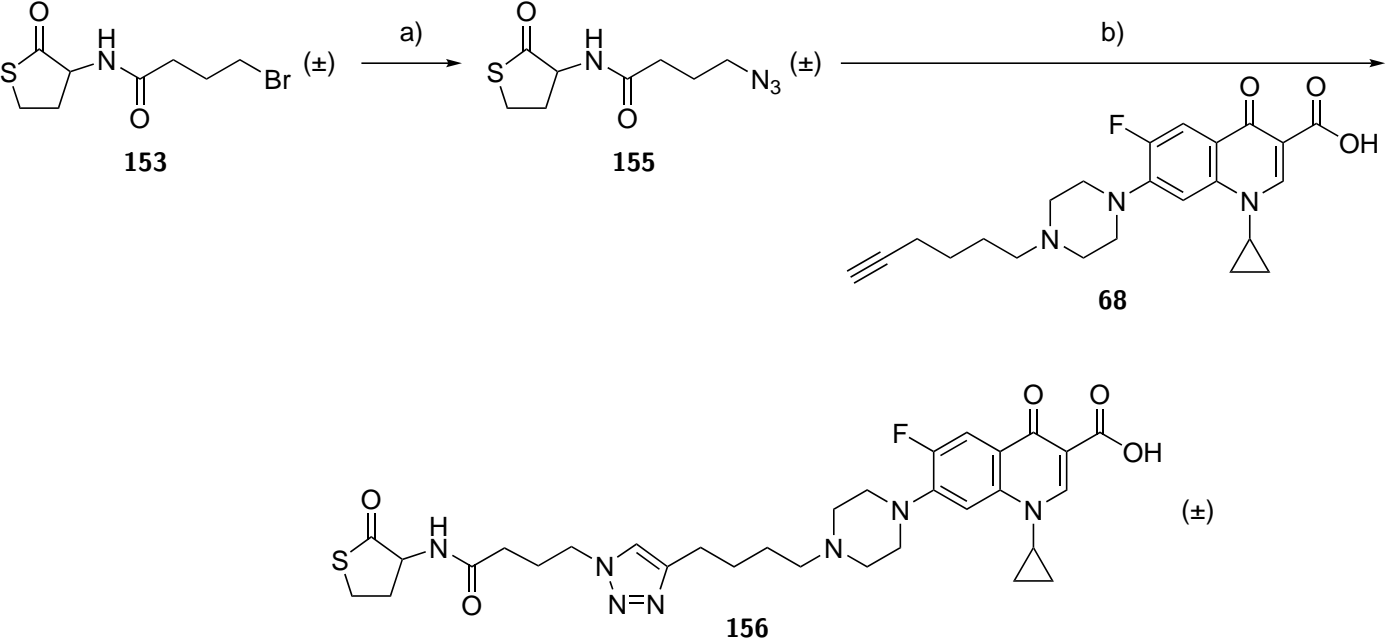
24

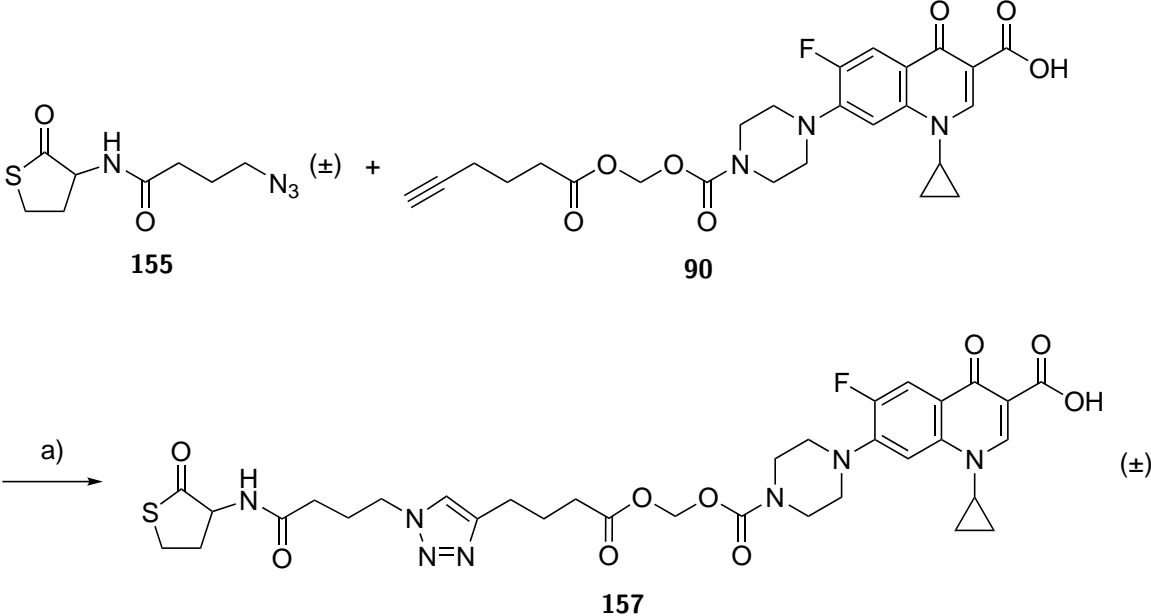


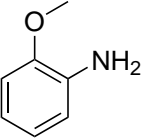
151





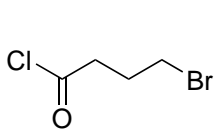






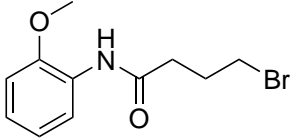
158

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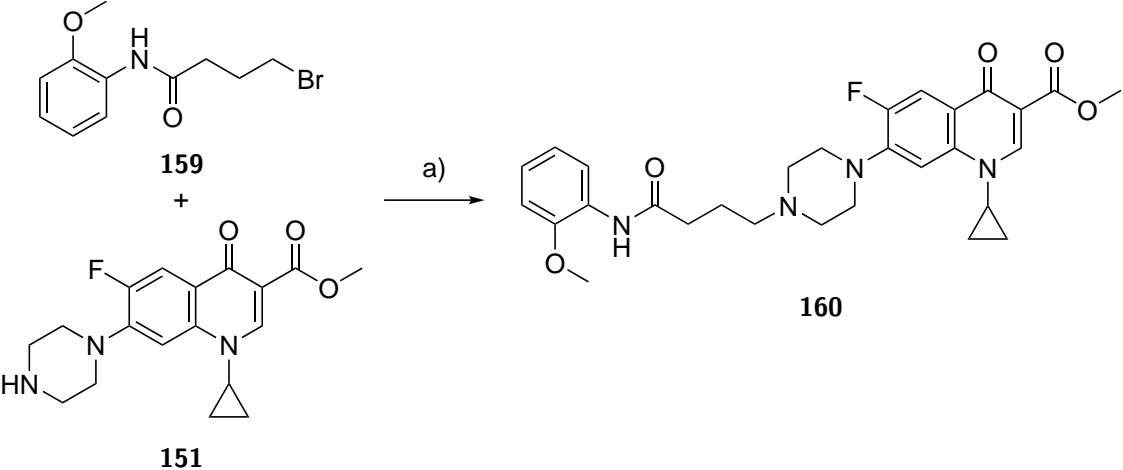


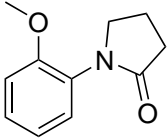
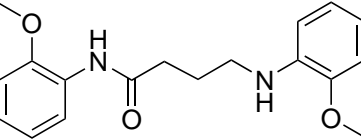
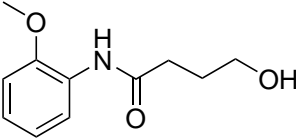
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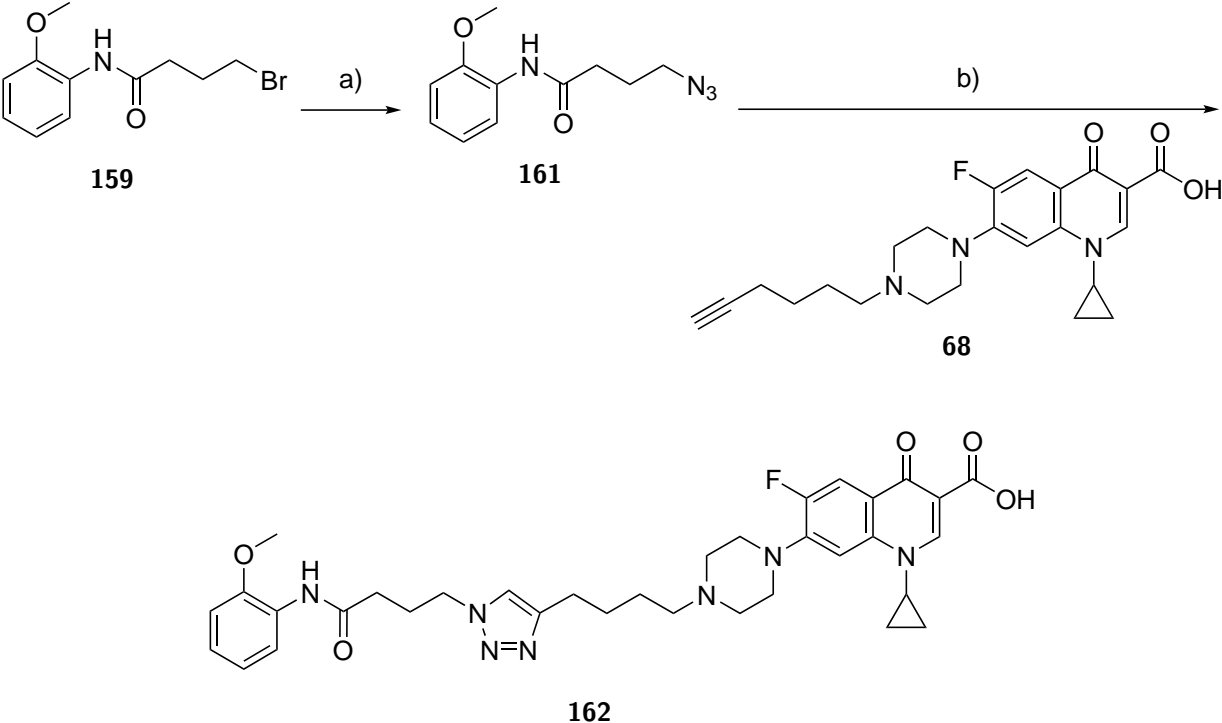
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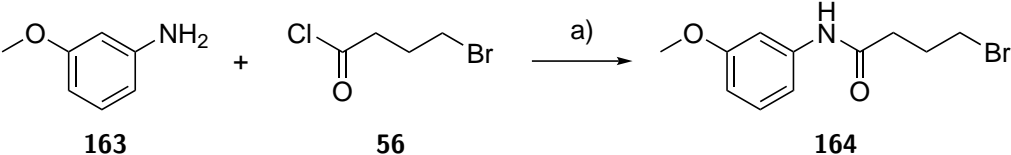


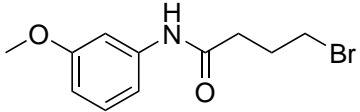
159





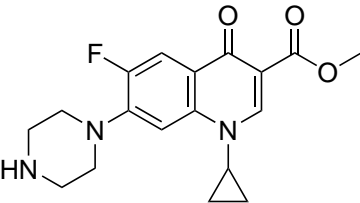




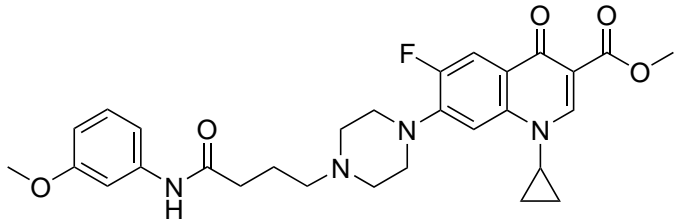
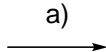


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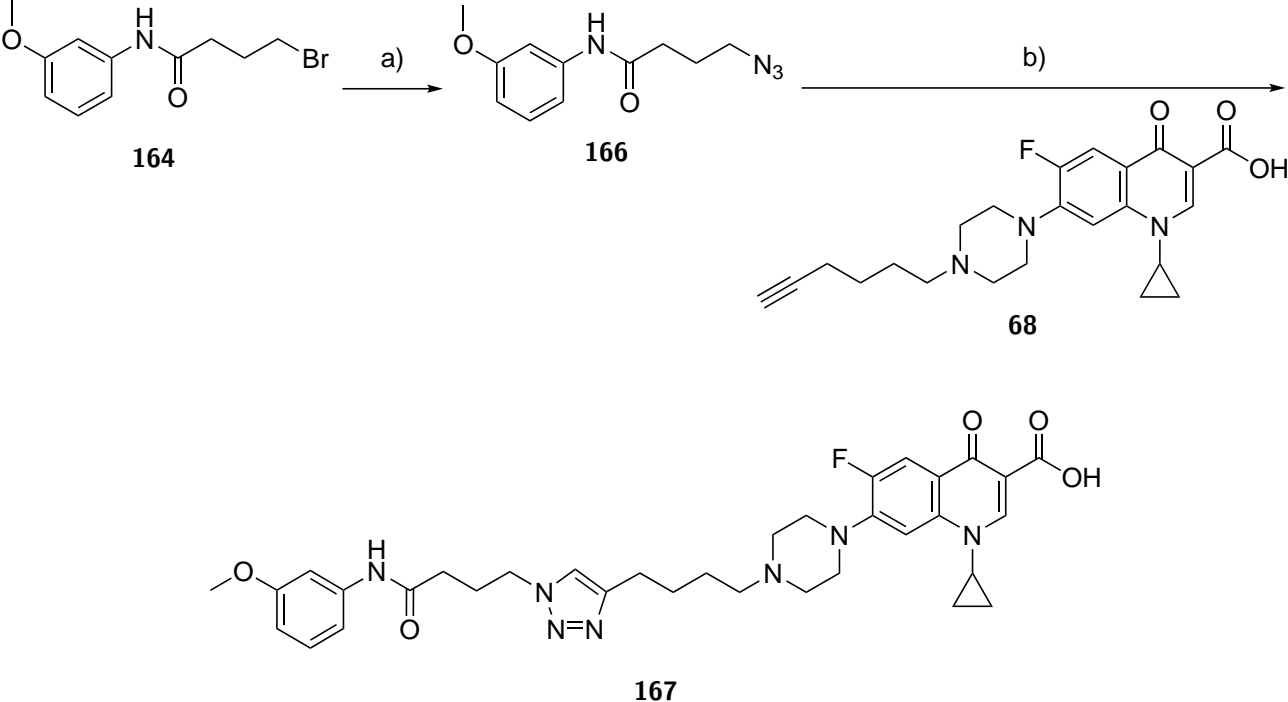
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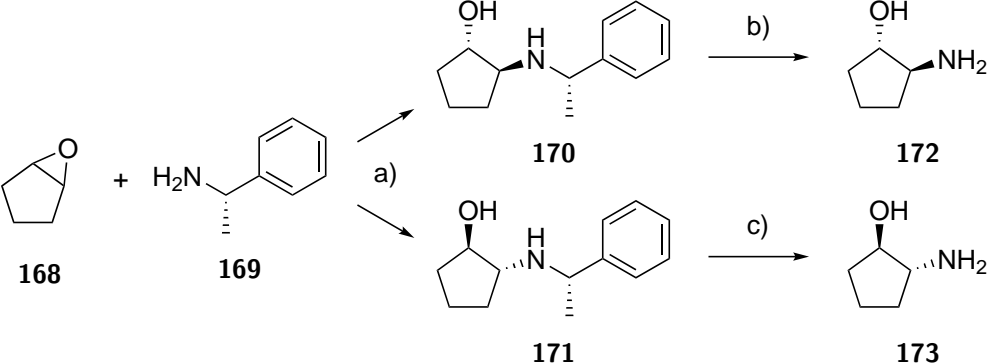


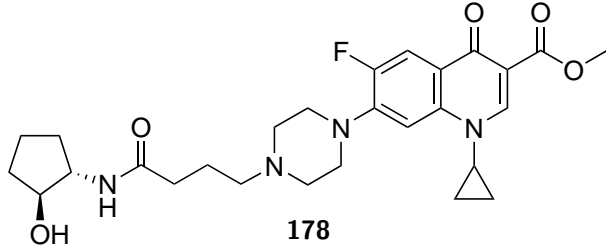
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165

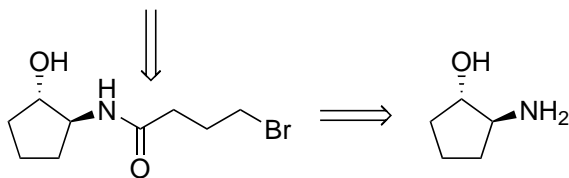






178

179

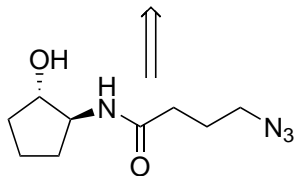


174

175

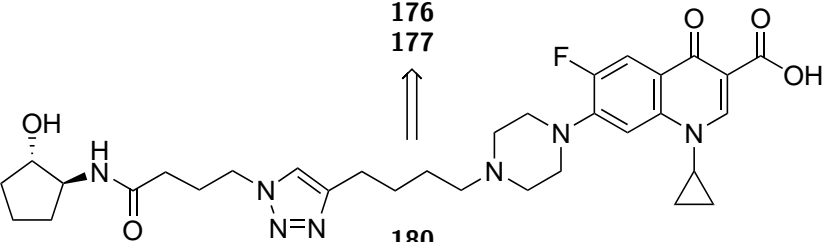
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173



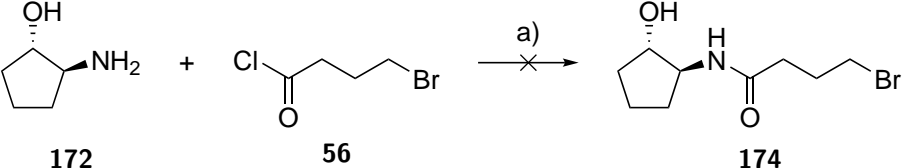
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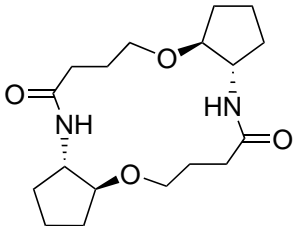
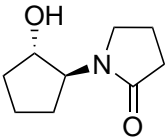
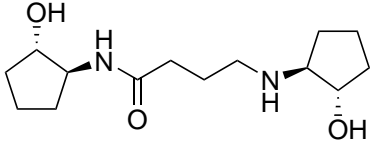
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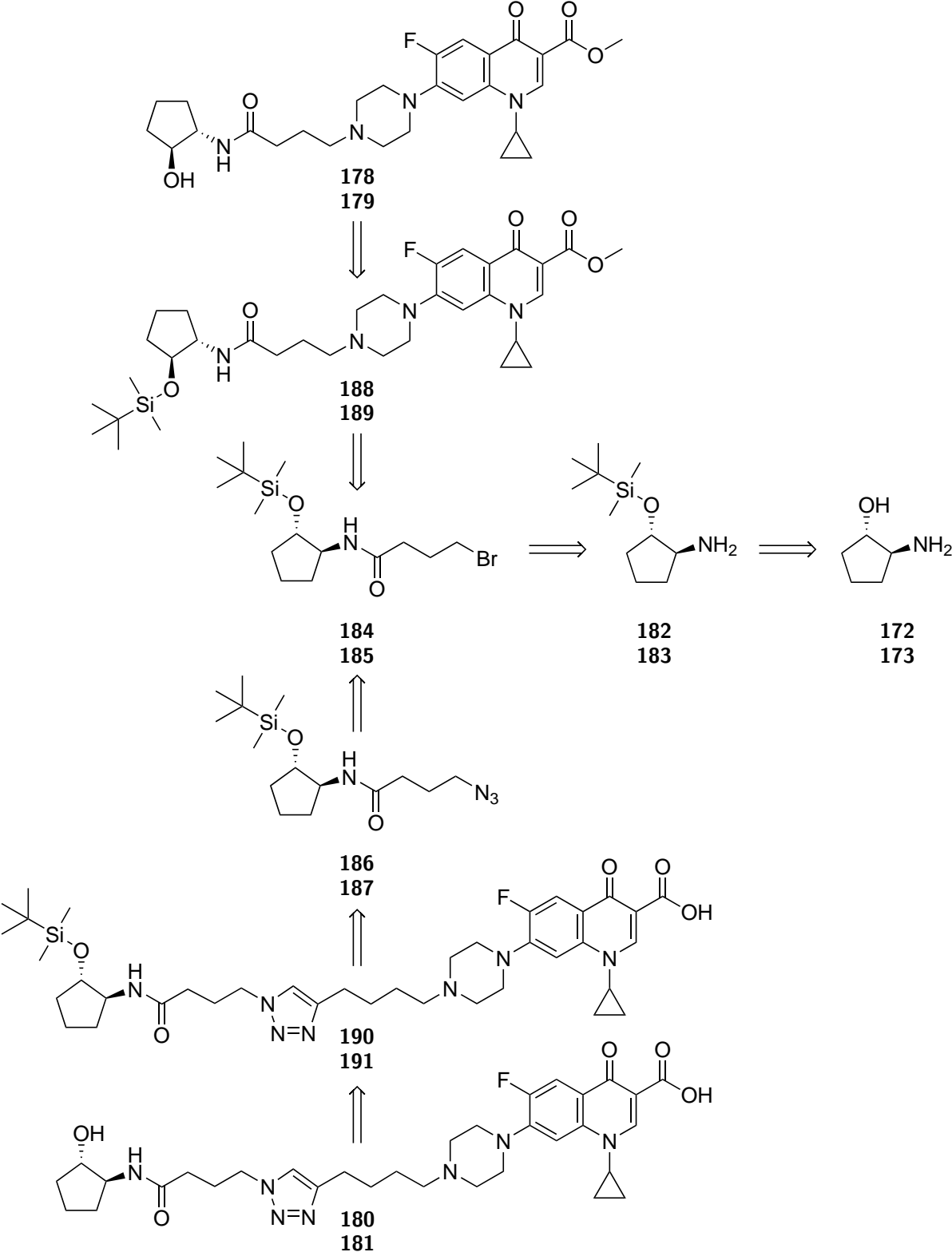


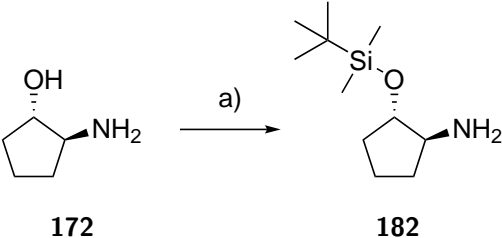
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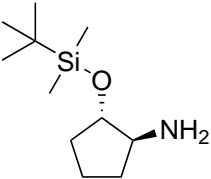
181





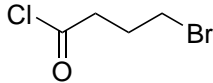




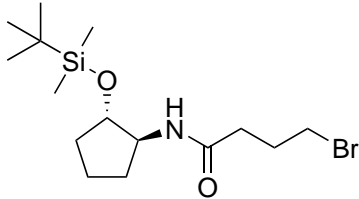
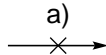


182

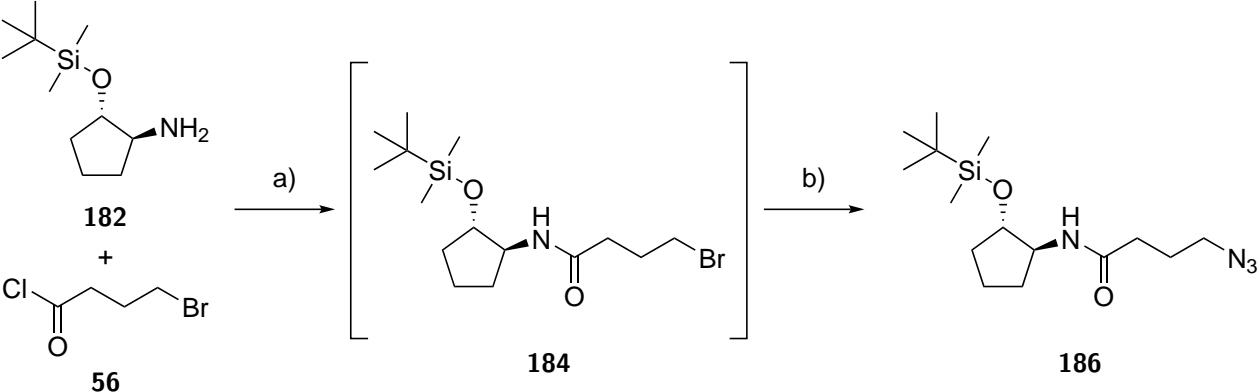
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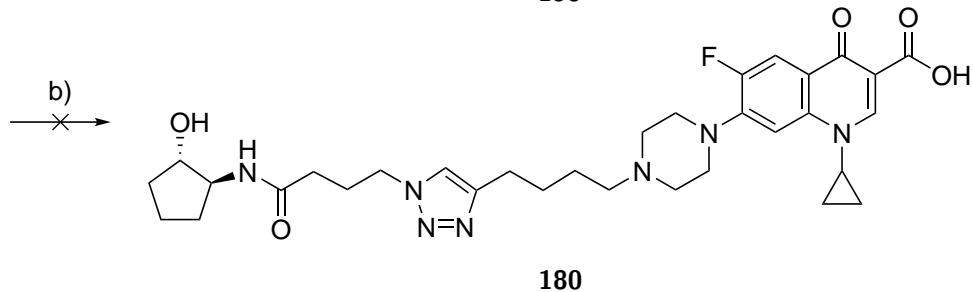
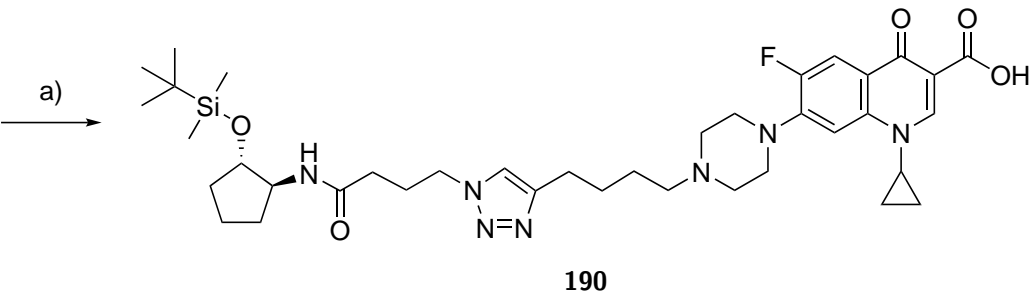
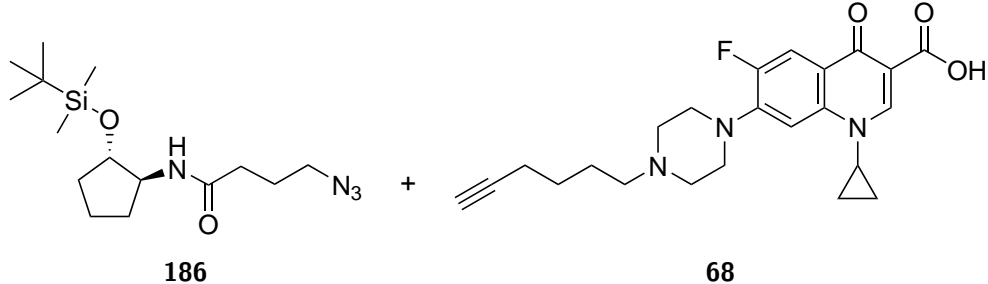


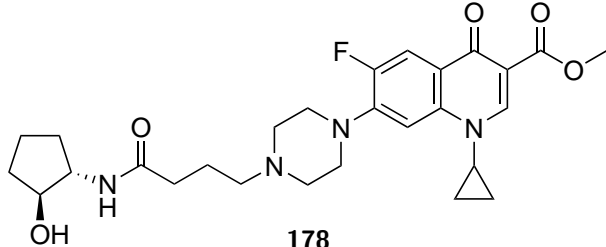
56



184

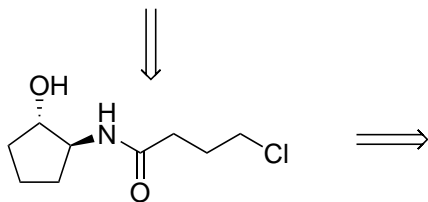






178

179

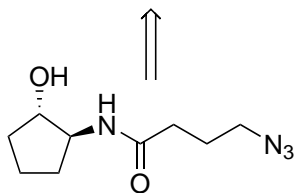


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194

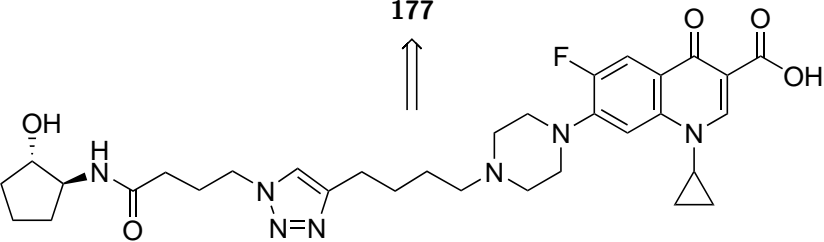
172

173



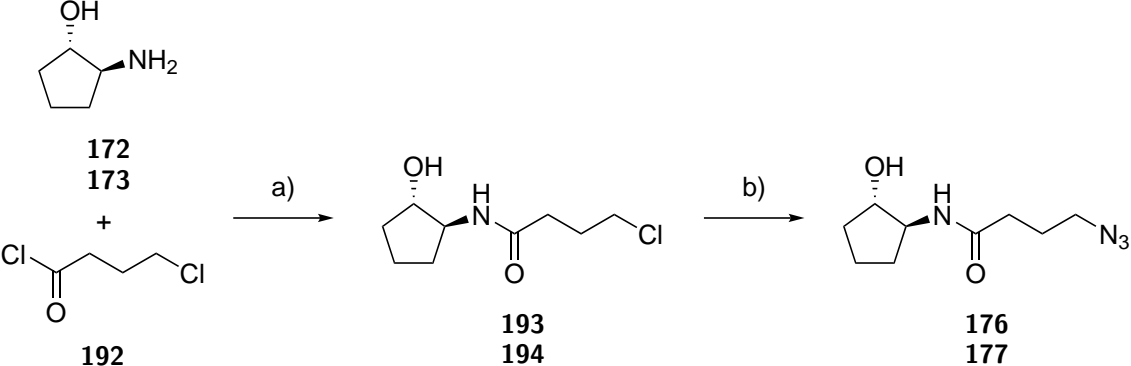
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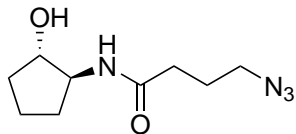
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180

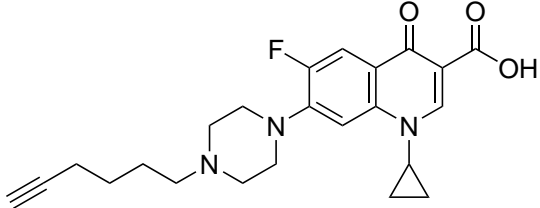
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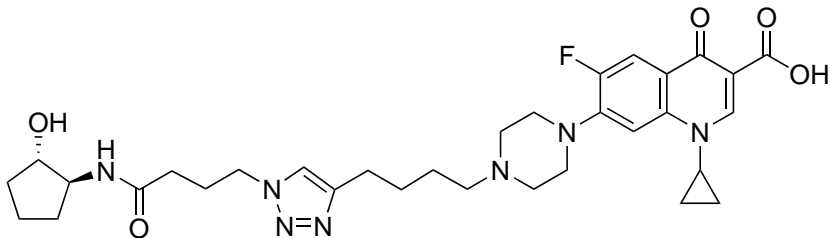
176
177

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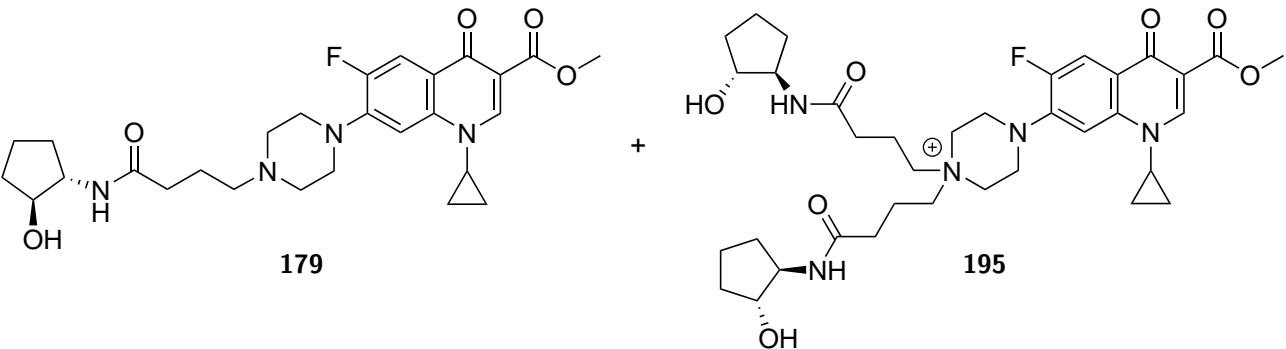
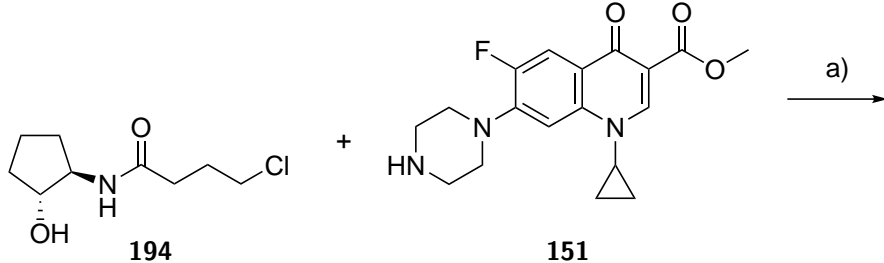


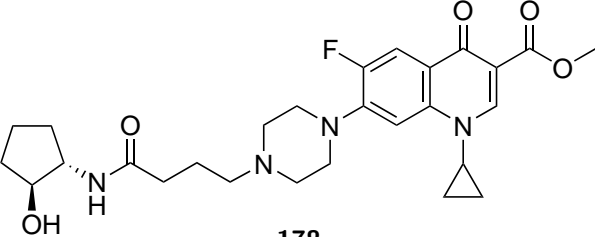
68

a) →



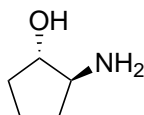
180
181





178

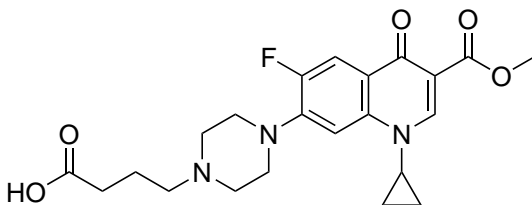
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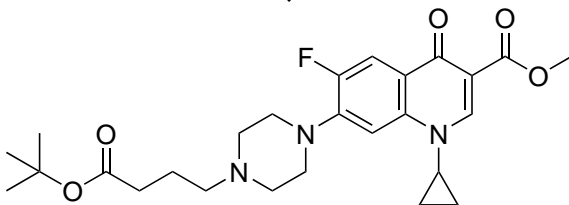
172

173

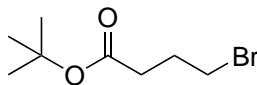
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198

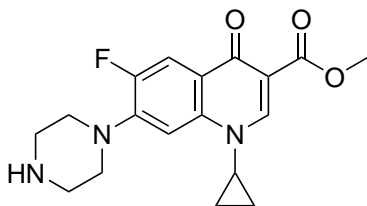


197

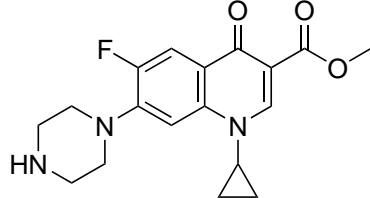


196

+

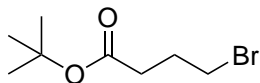


151



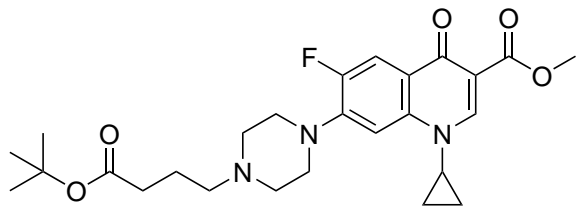
151

+



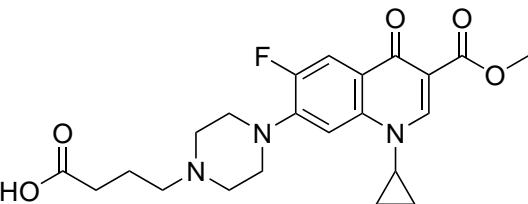
196

a)



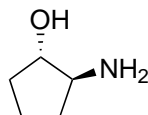
197

b)



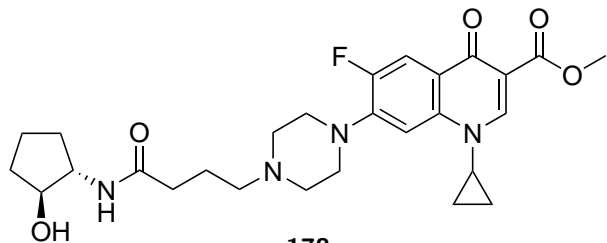
198

c)



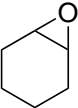
172

173

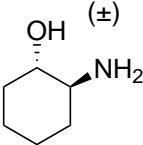
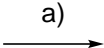


178

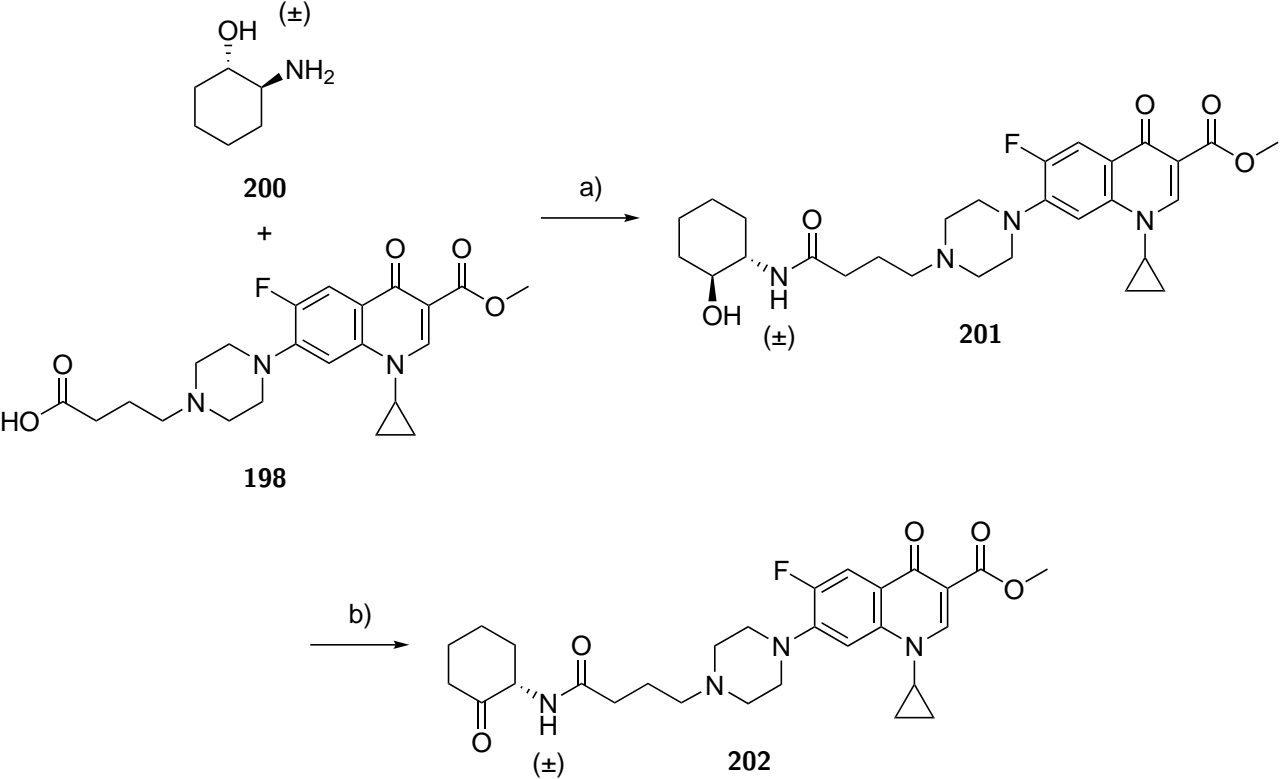
179

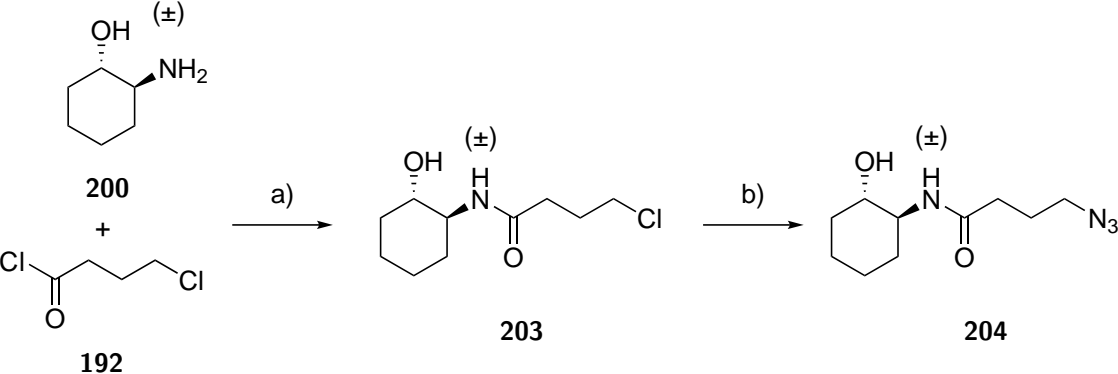


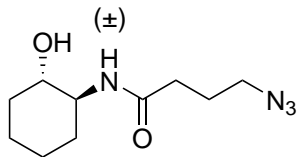
199



200

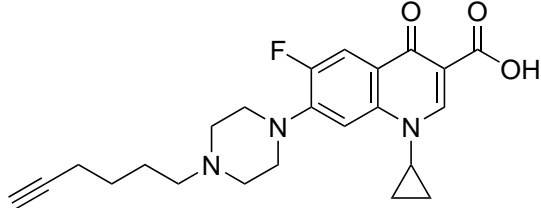






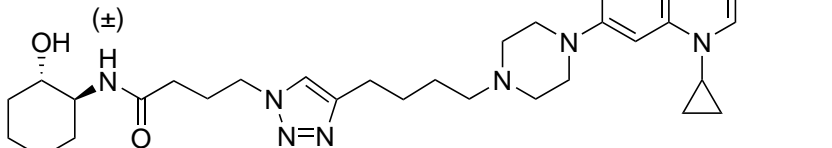
204

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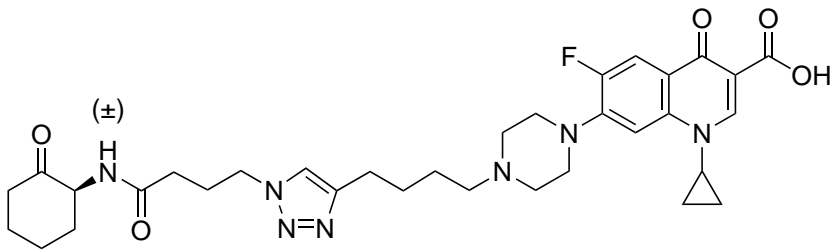
68

a)

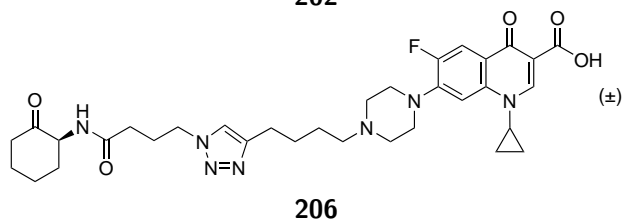
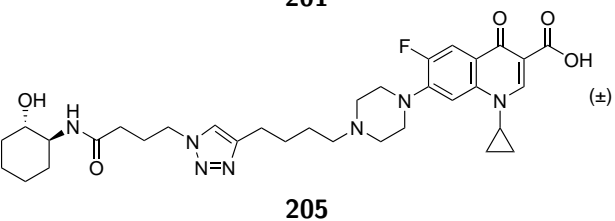
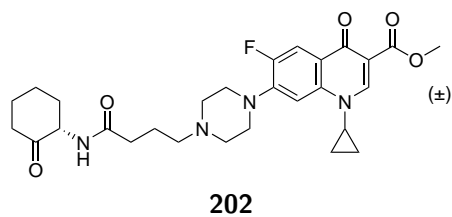
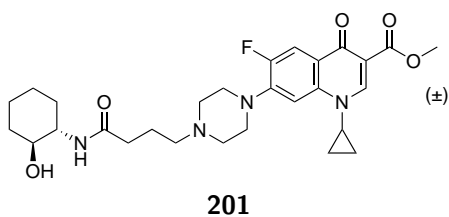
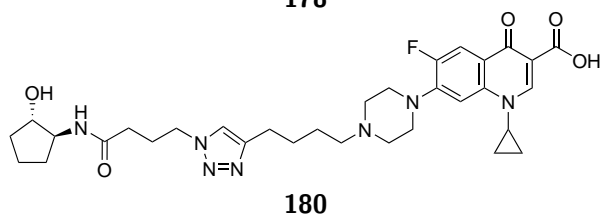
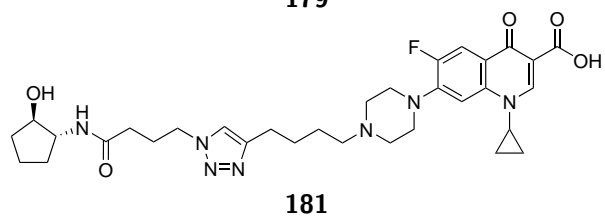
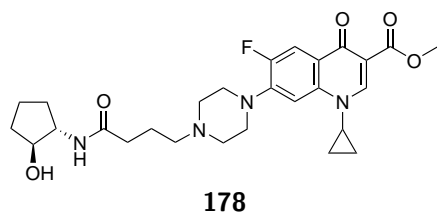
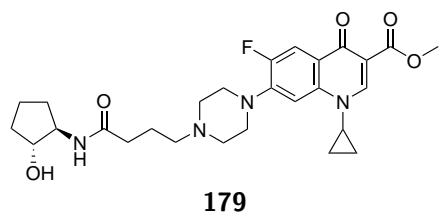
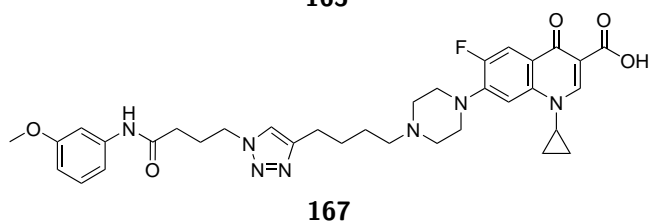
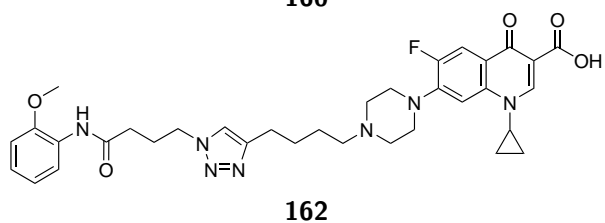
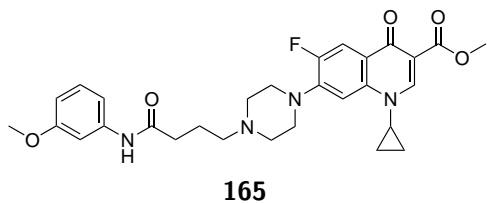
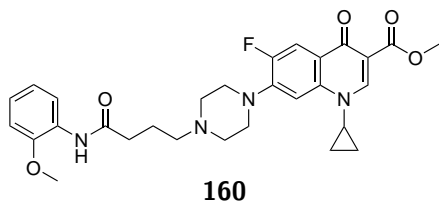
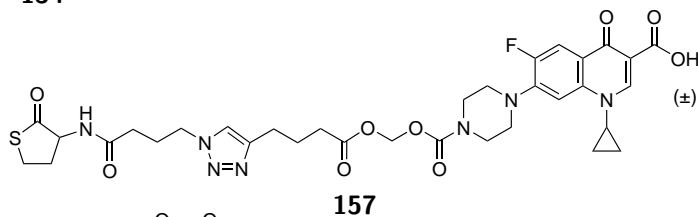
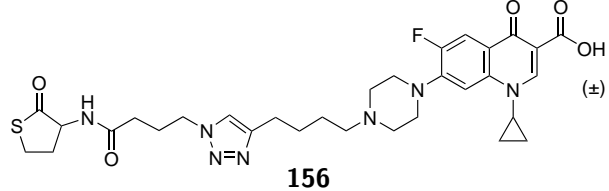
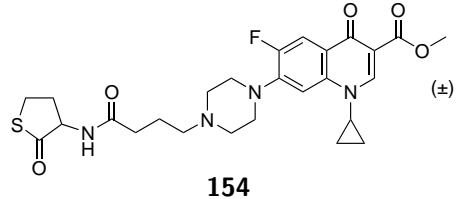


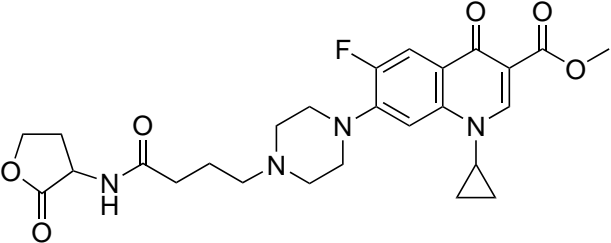
205

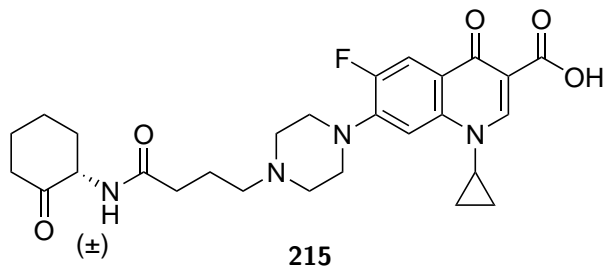
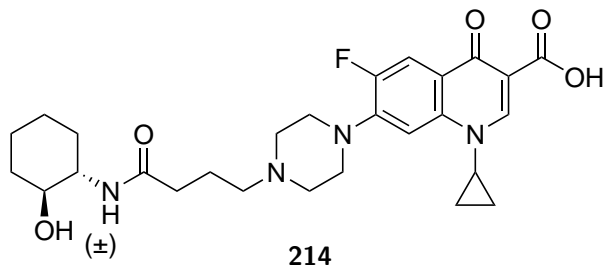
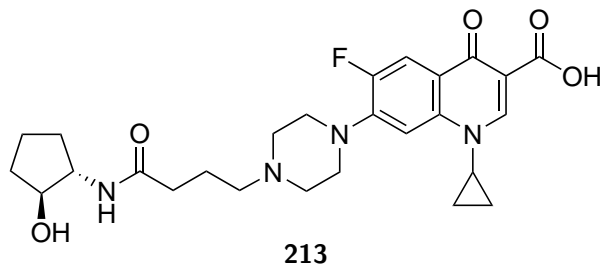
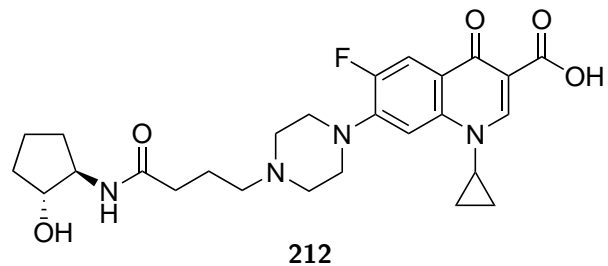
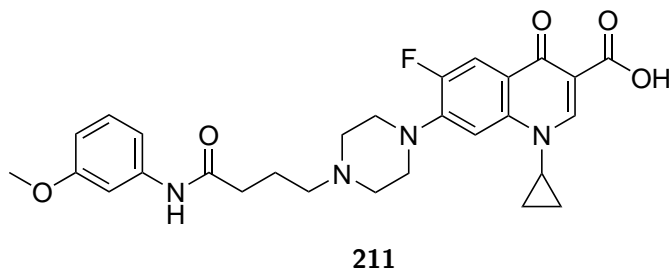
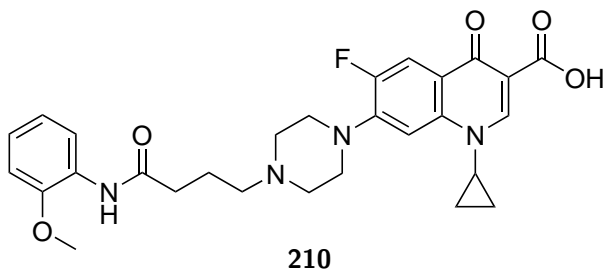
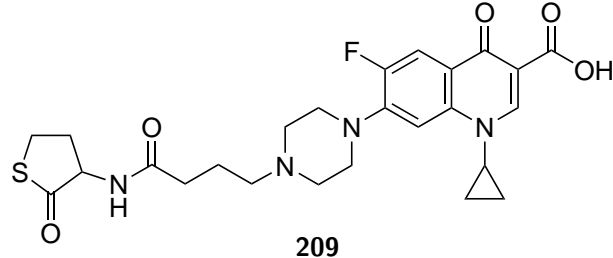
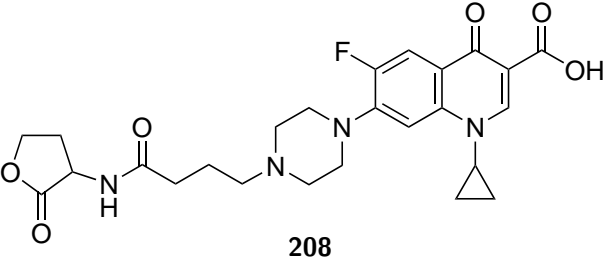
b)

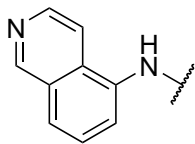
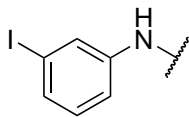
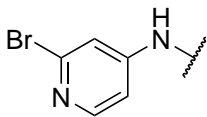
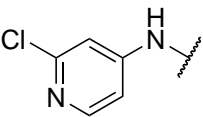
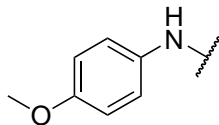
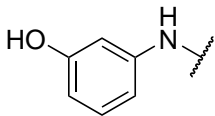
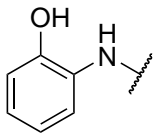
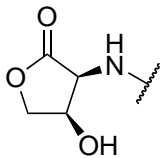
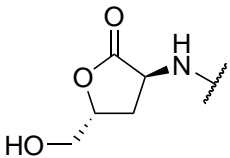
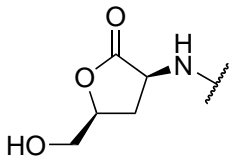
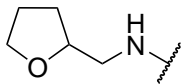
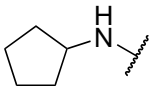
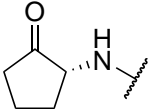
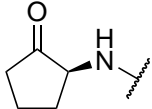


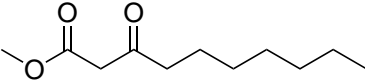
206



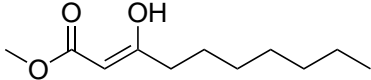




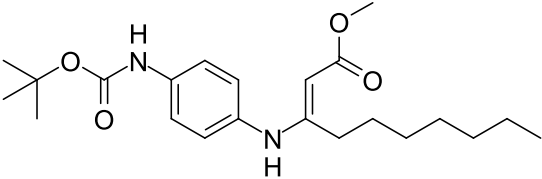


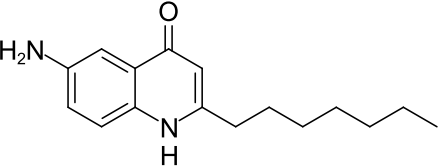


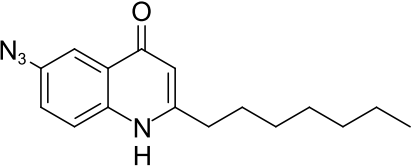
33
92 %

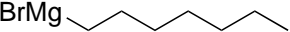


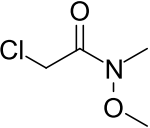
34
8 %

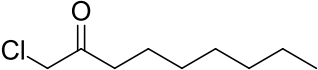


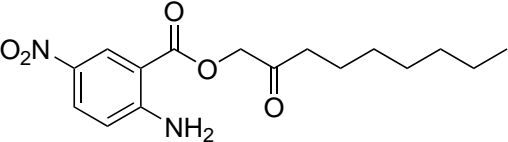


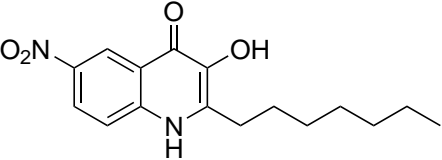


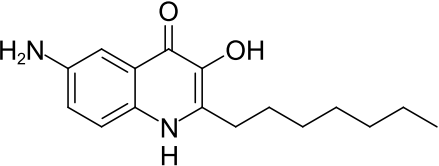


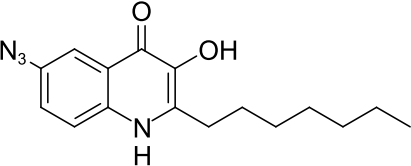


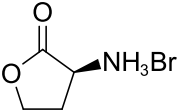


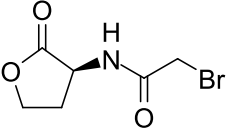


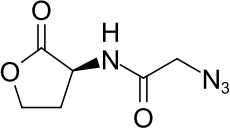


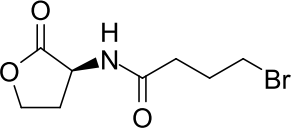


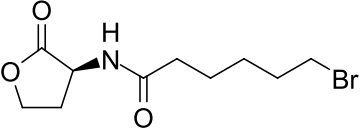


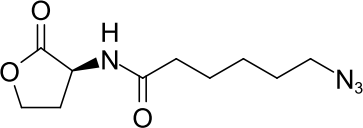


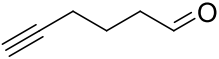


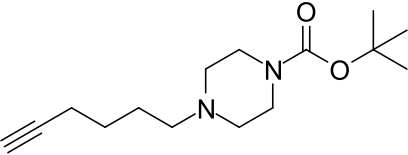


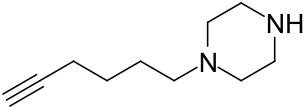


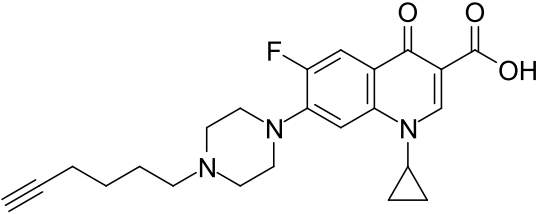


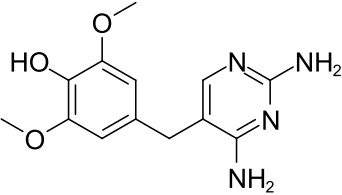


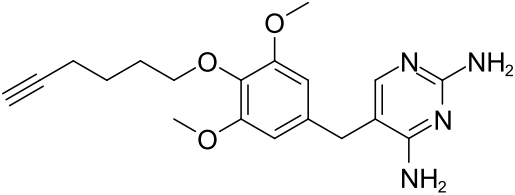


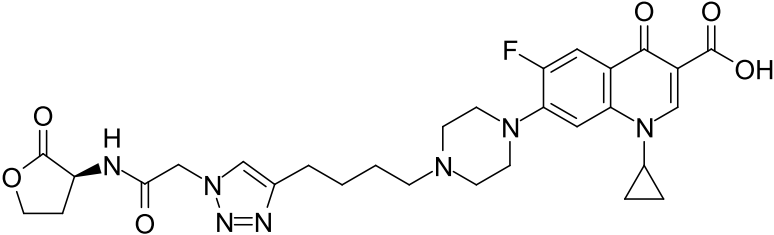


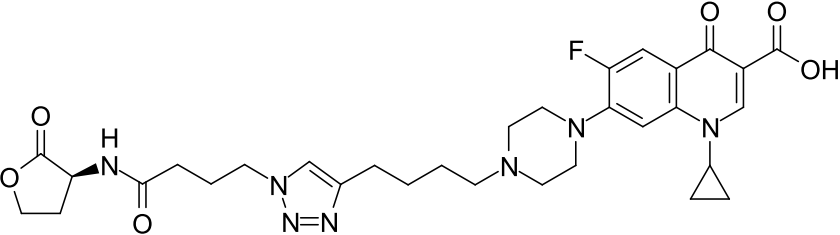


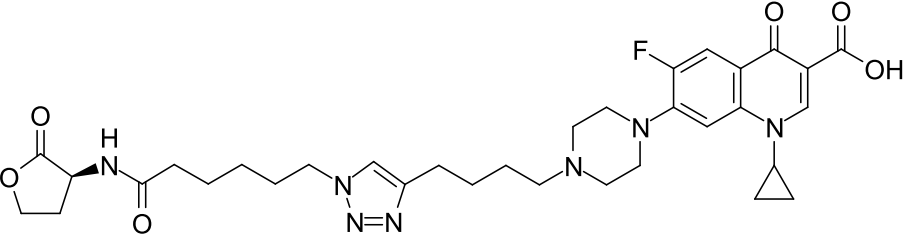


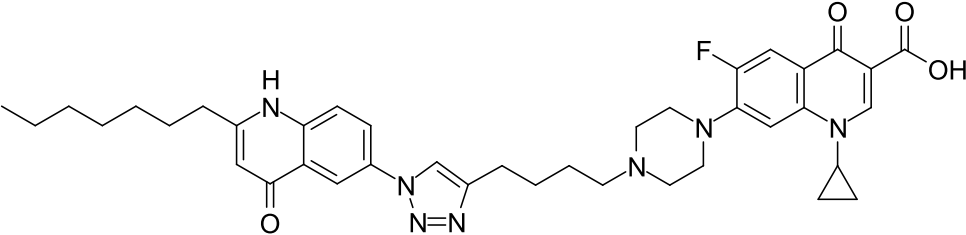


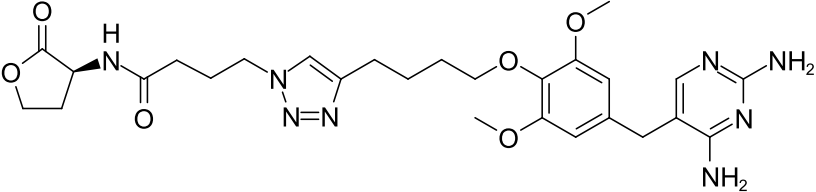


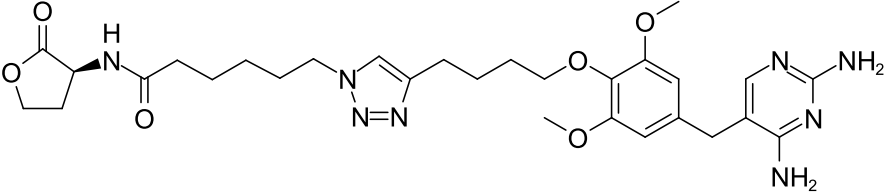


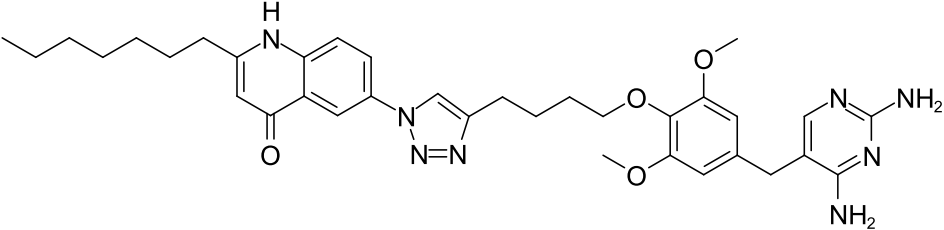


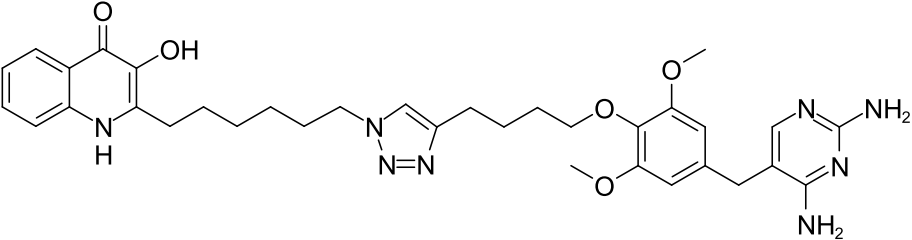


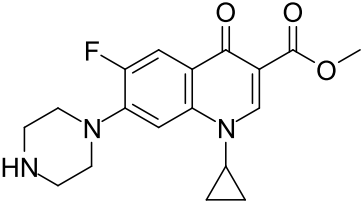


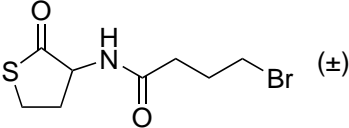


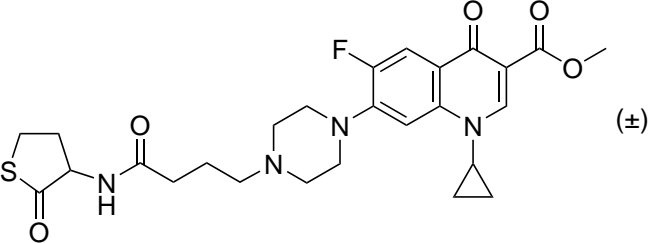


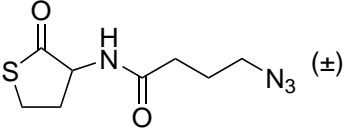


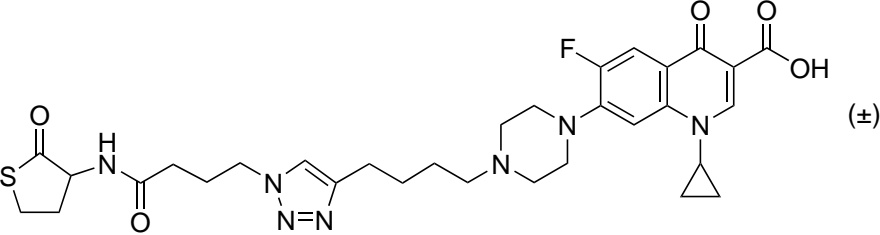


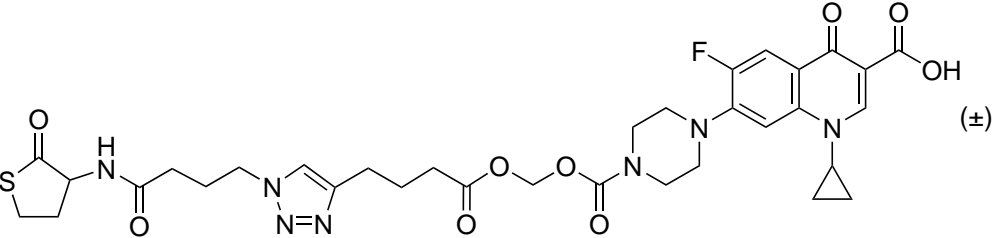


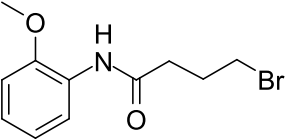


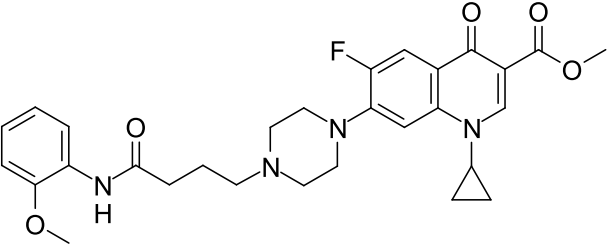


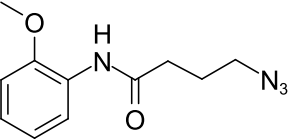


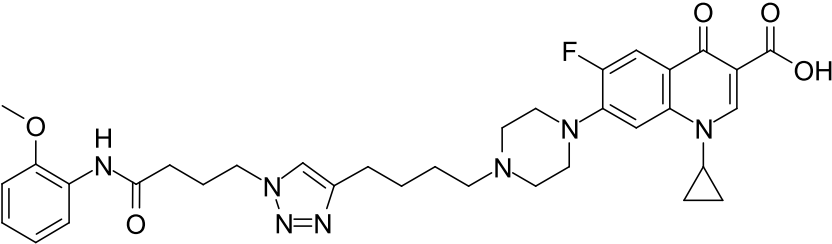


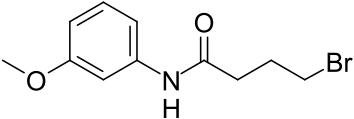


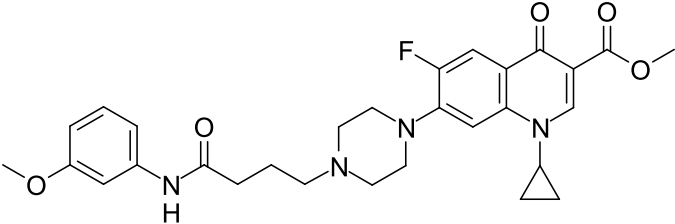


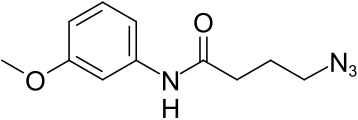


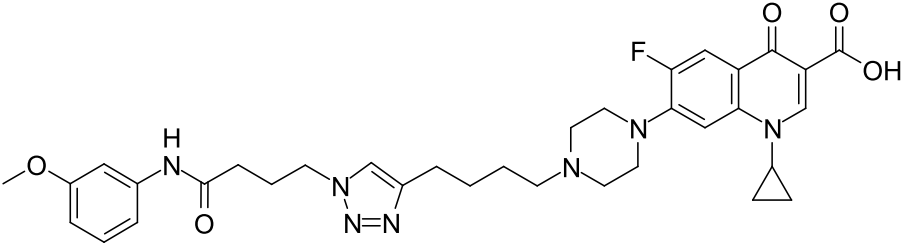


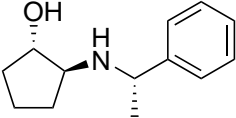




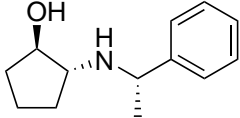








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