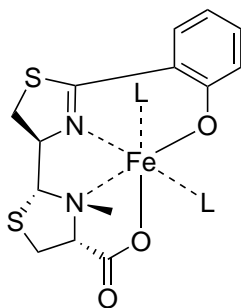
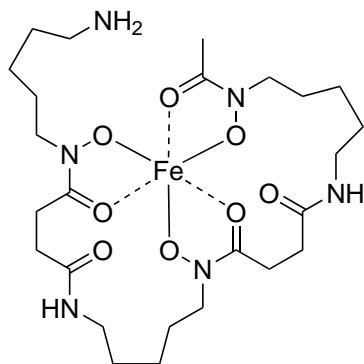


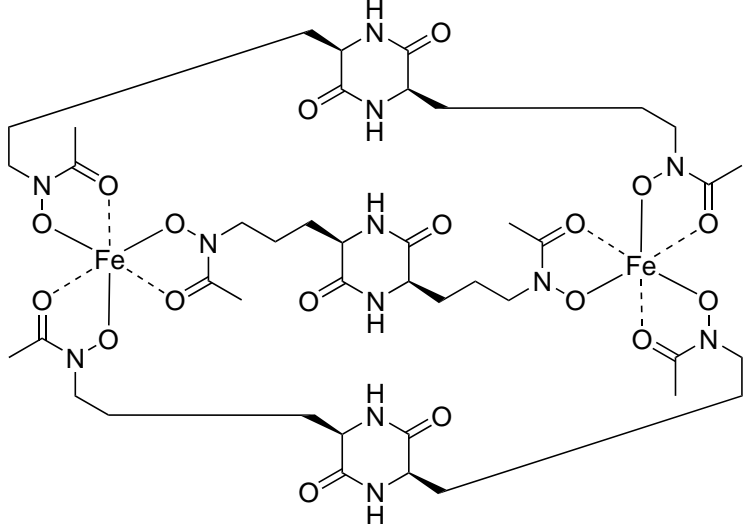
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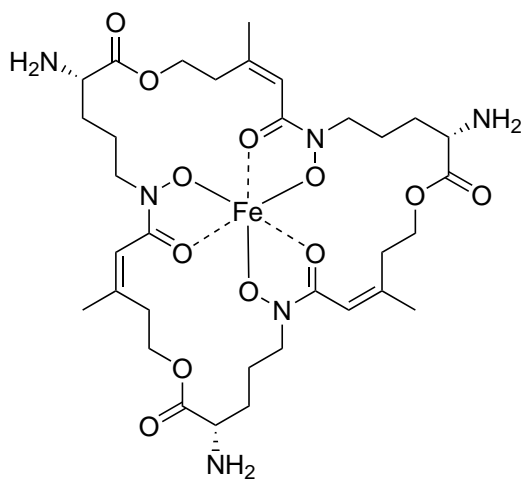
8



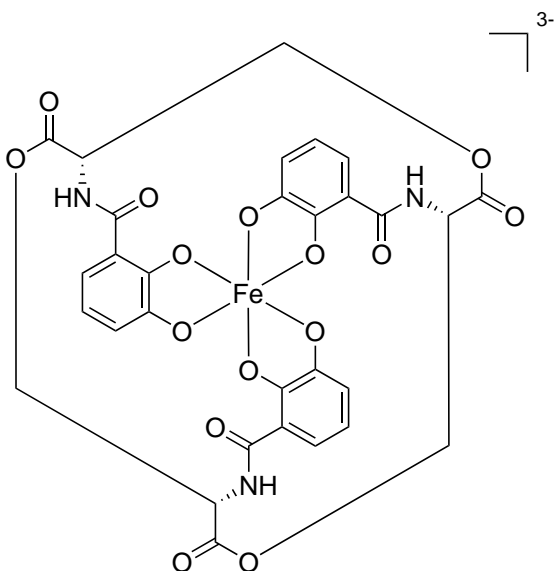
Deferoxamine B  
1



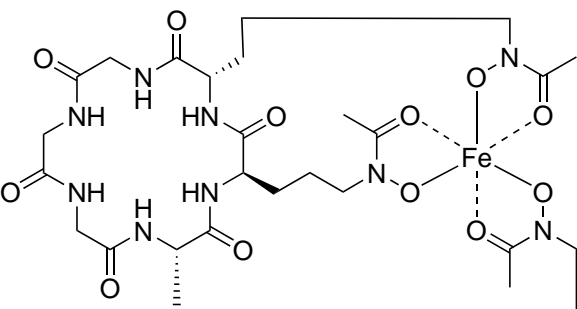
Rhodotorulic acid  
2



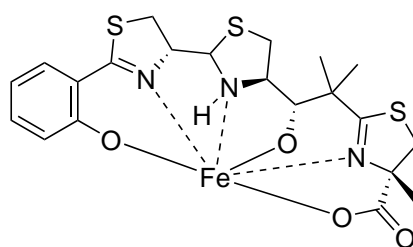
Fusarinine C  
3



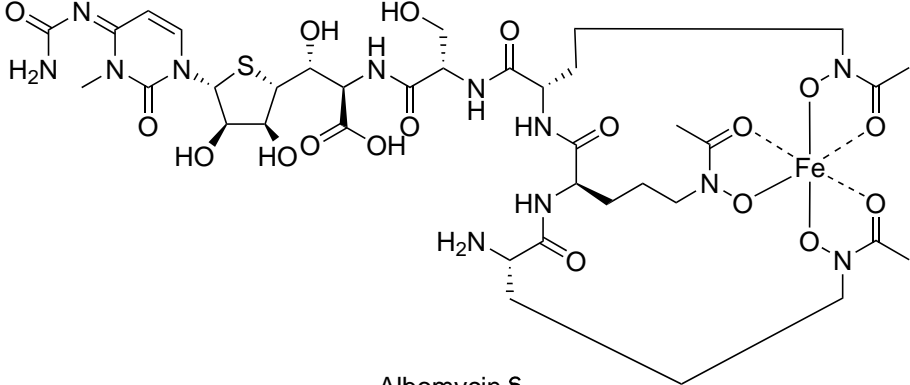
Enterobactin  
4



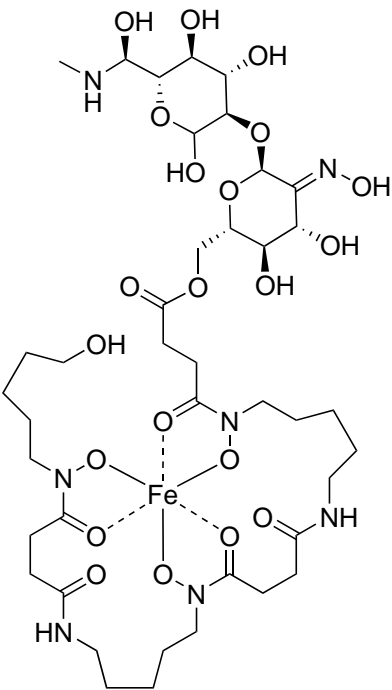
Ferrichrome  
5



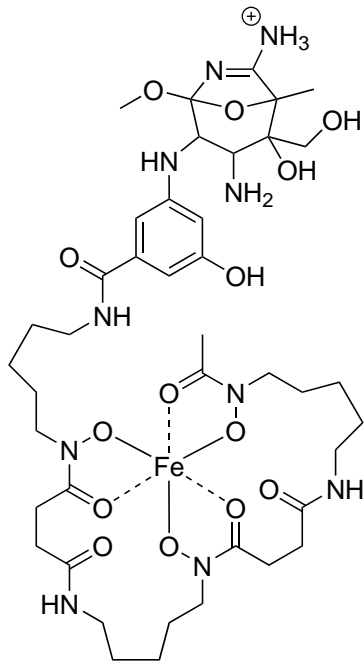
Yersiniabactin  
6



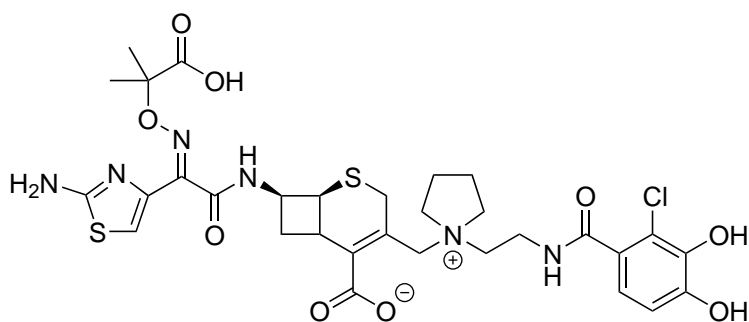
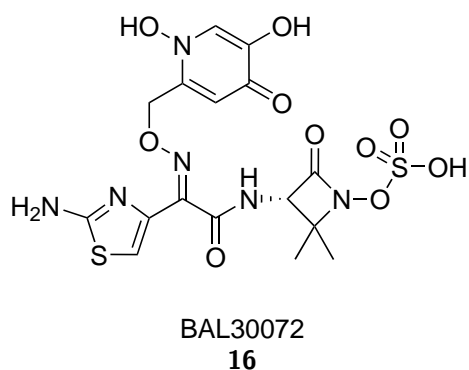
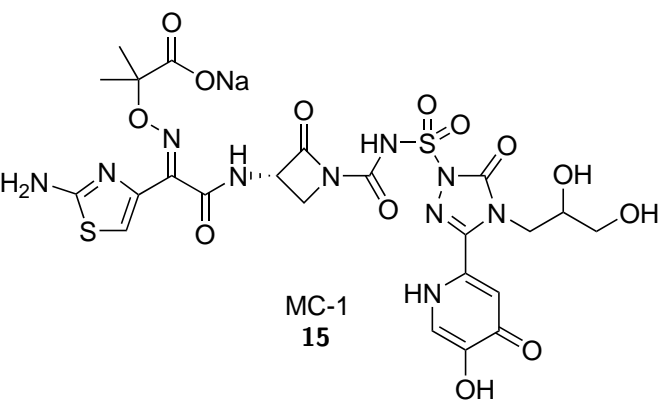
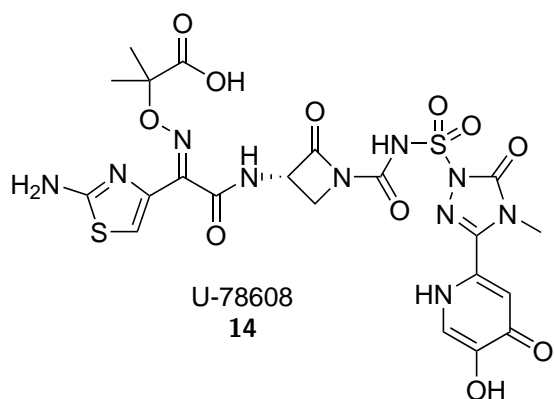
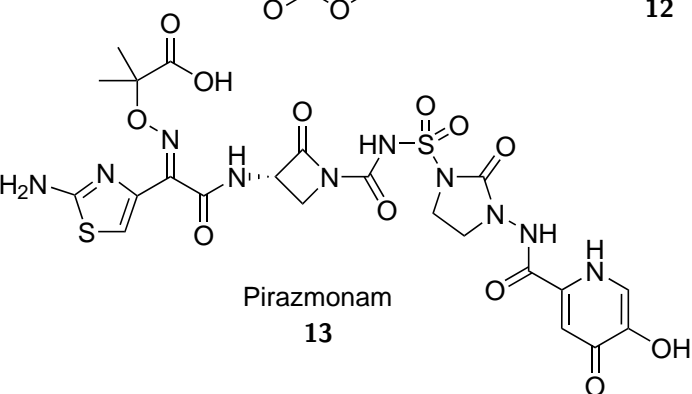
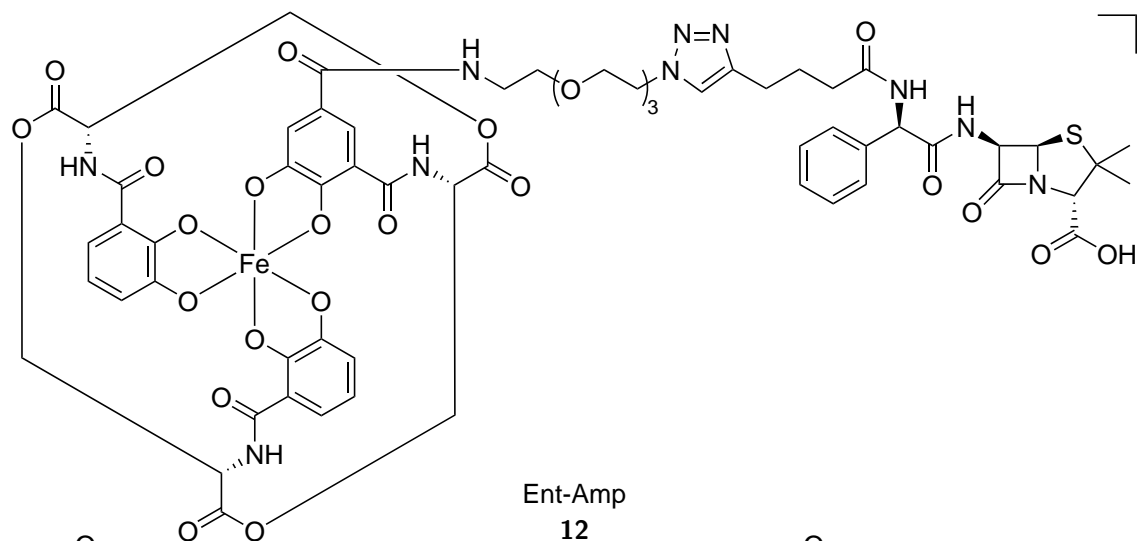
Albomycin  $\delta_2$   
9

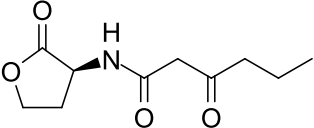


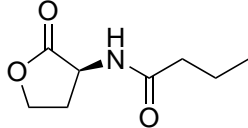
Salmycin A  
10



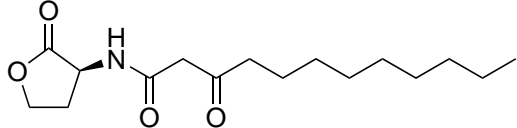
Ferrimycin A1  
11



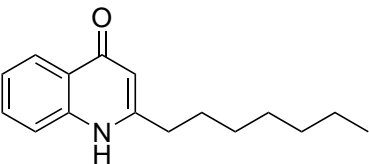




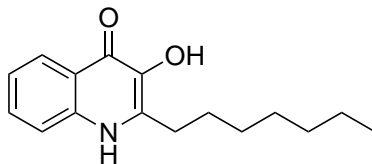
C<sub>4</sub>-HSL  
**19**



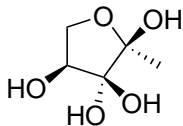
3-oxo-C<sub>12</sub>-HSL  
**20**



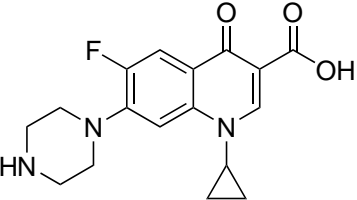
HHQ  
**21**



PQS  
**22**

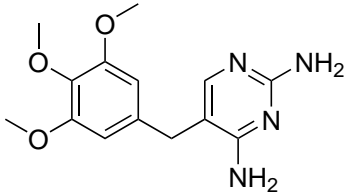


Al-2  
**23**



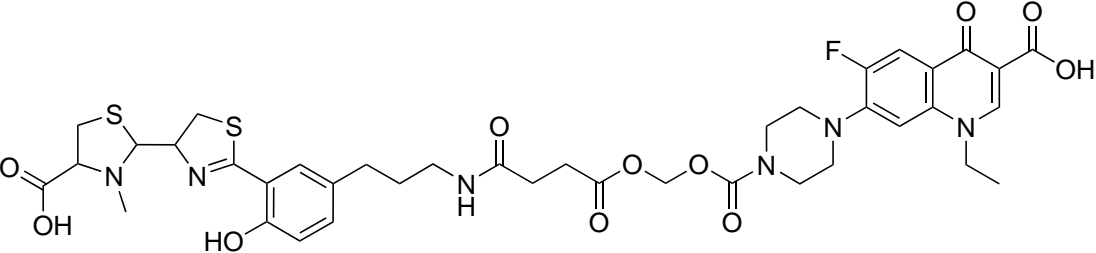
Ciprofloxacin

24

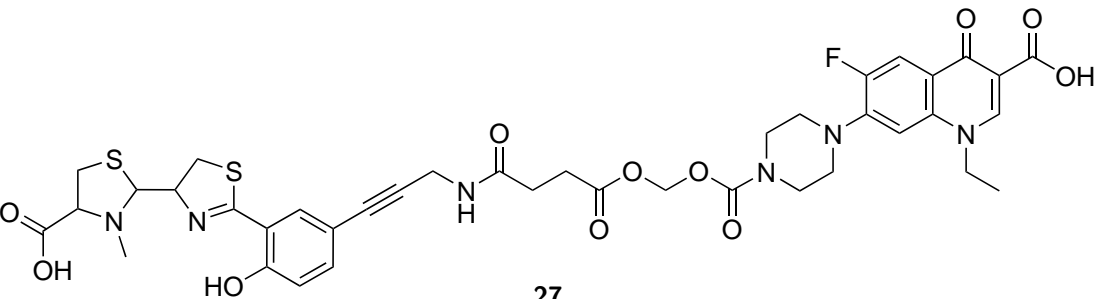


Trimethoprim

25

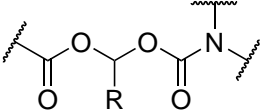


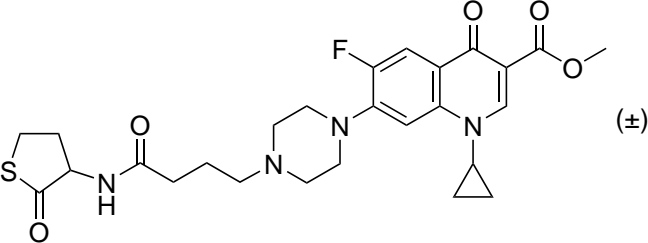
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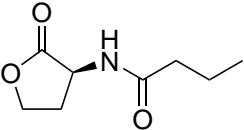


27



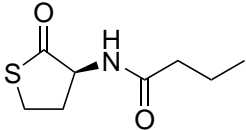






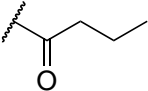
C<sub>4</sub>-HSL

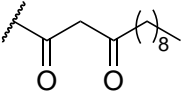
19

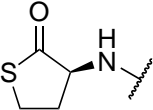


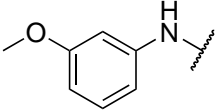
C<sub>4</sub>-HCTL

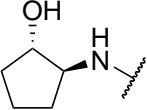
28



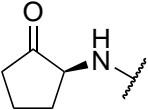


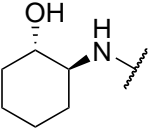


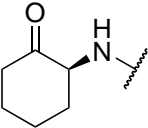


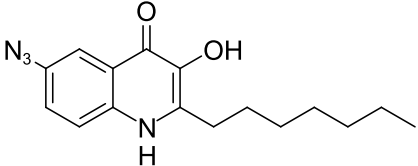
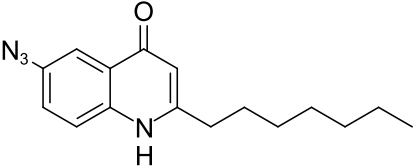


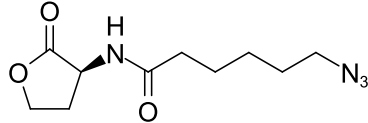
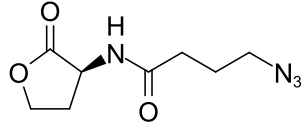
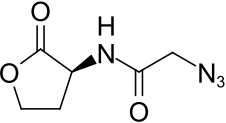


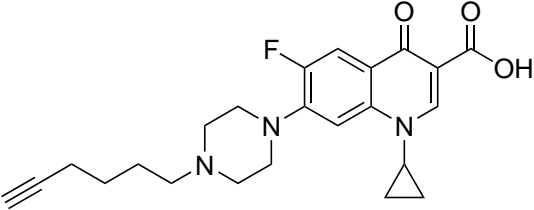




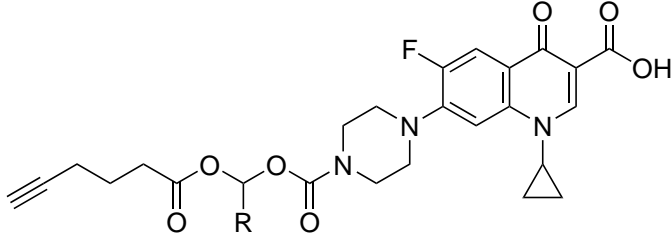






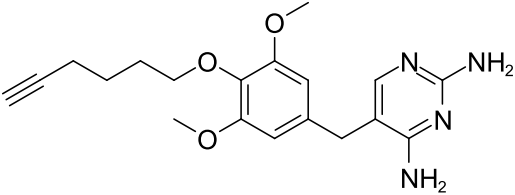


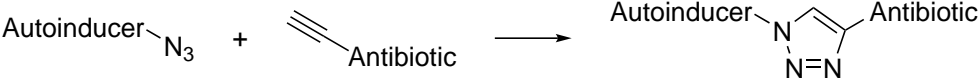
**68**



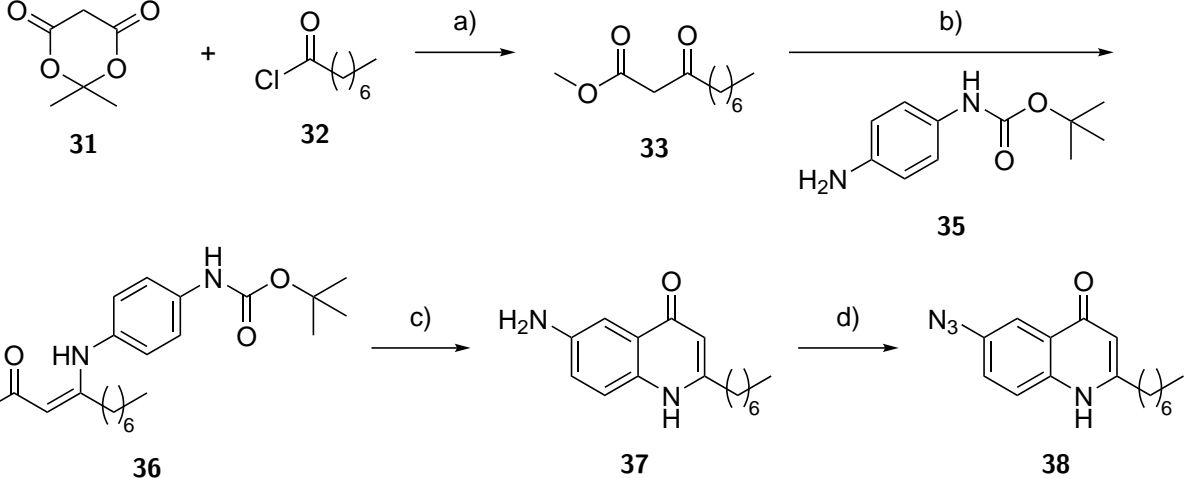
$\text{R} = \text{H}$  **90**

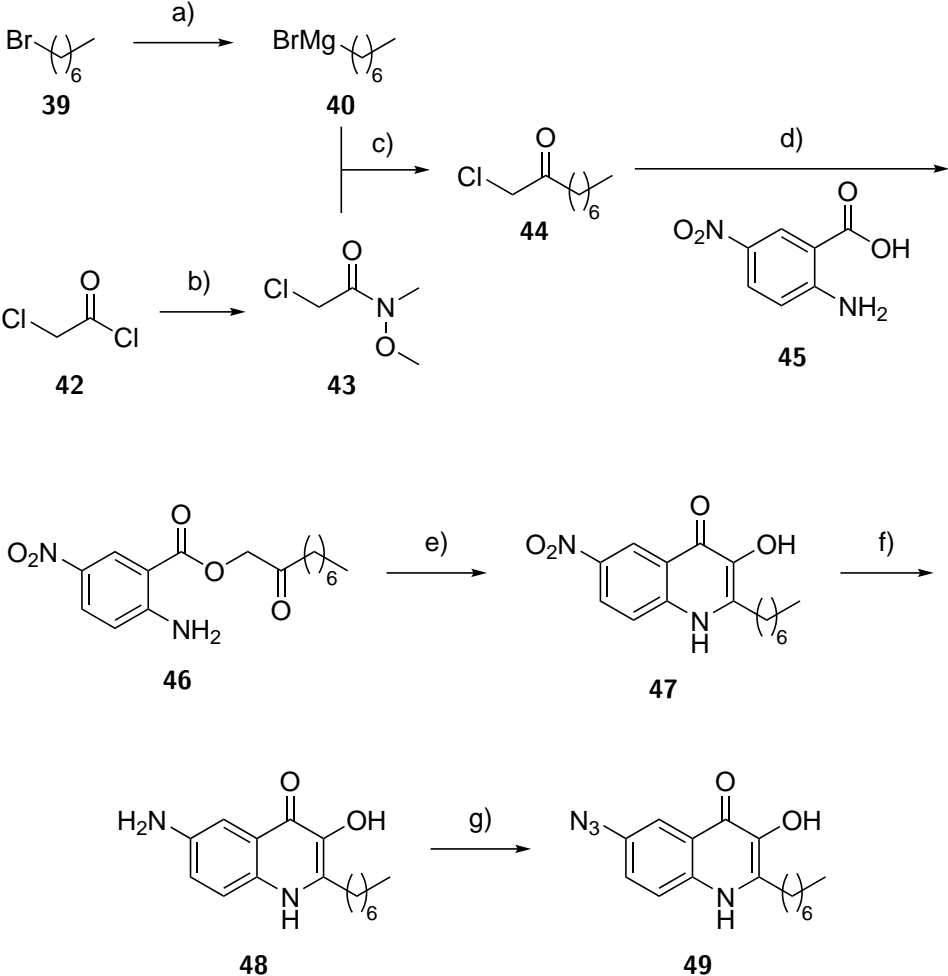
$\text{R} = \text{Me}$  **91**

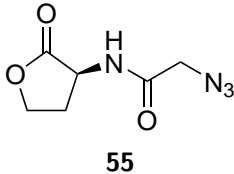
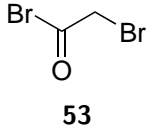
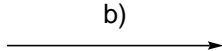
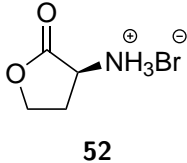
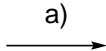
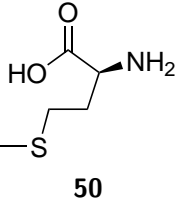


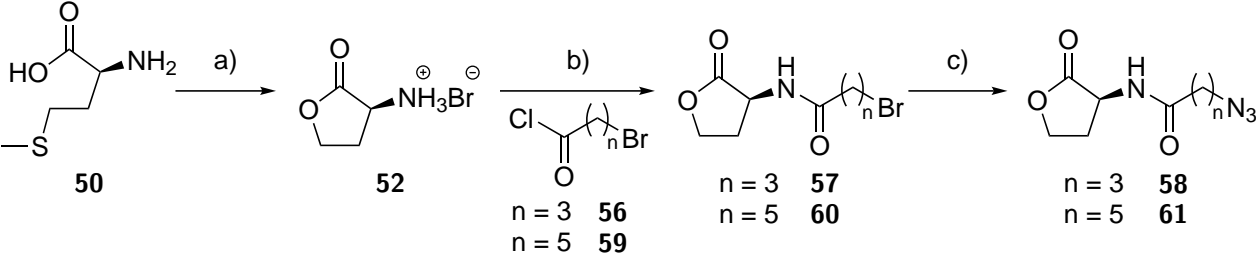


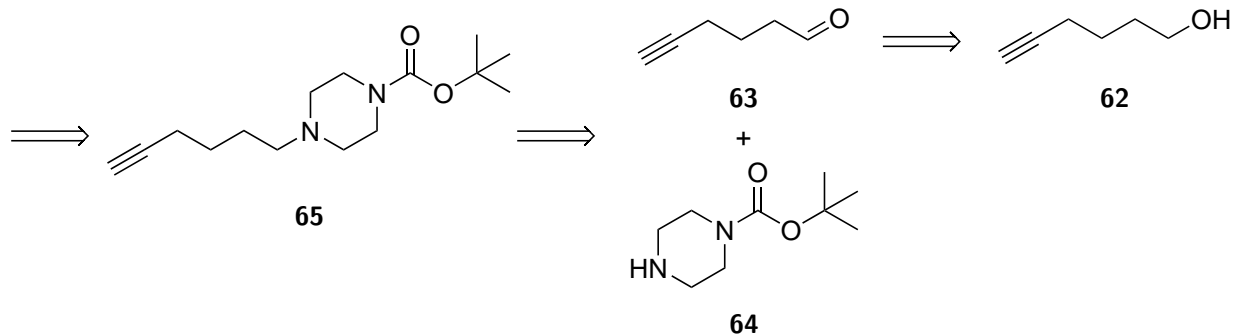
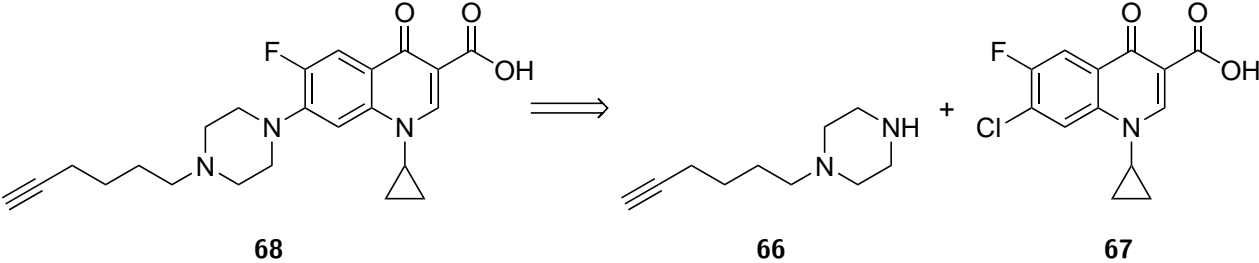


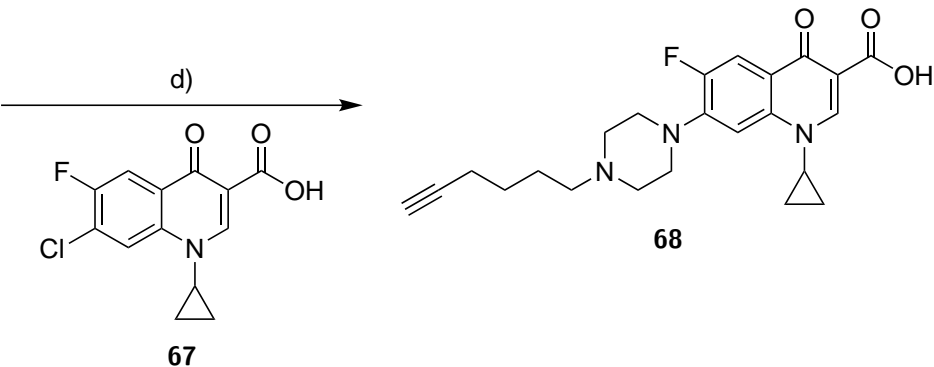
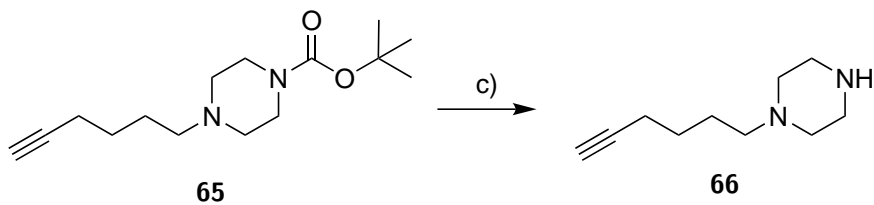
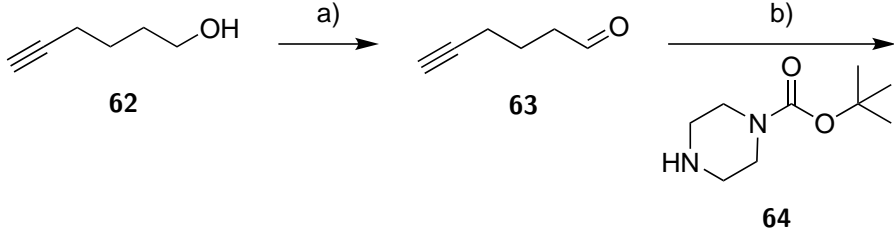


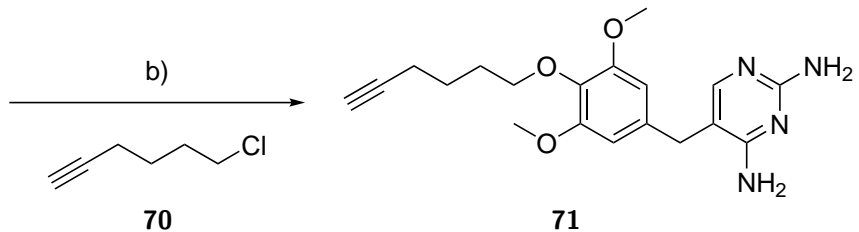
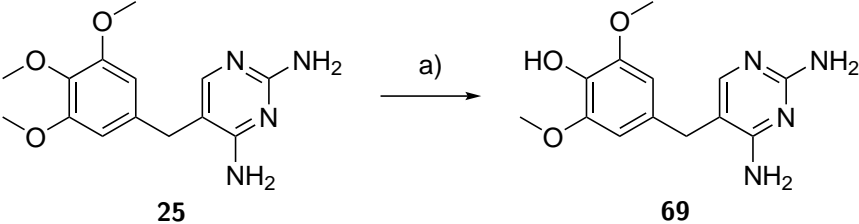


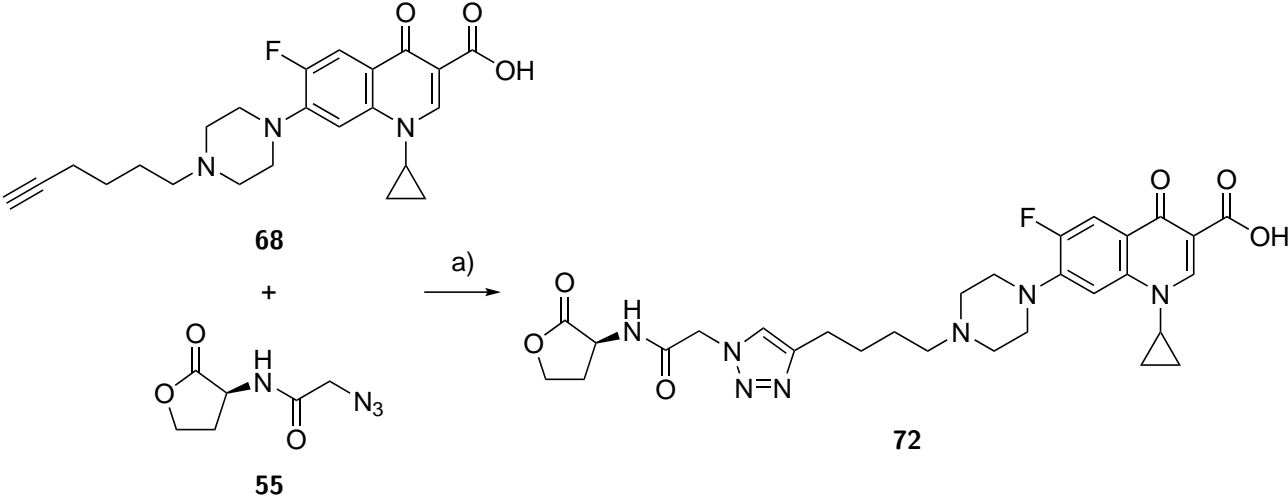




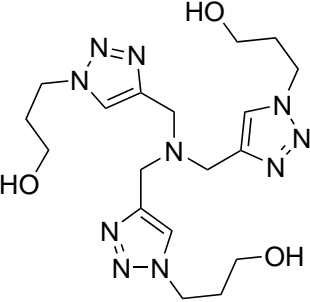


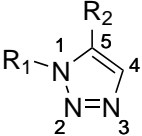
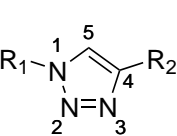


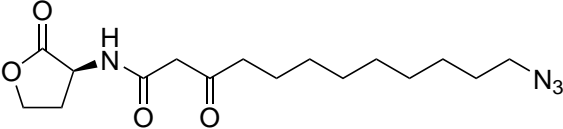




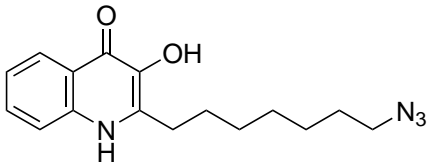




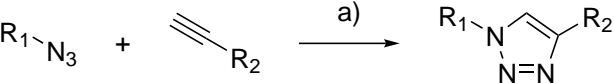


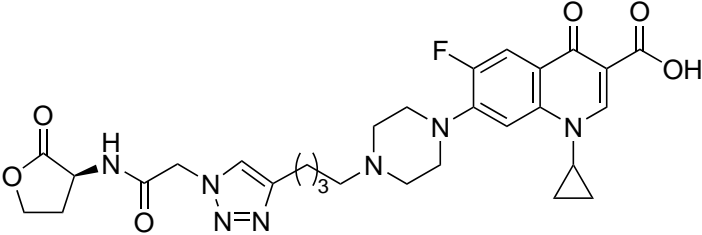


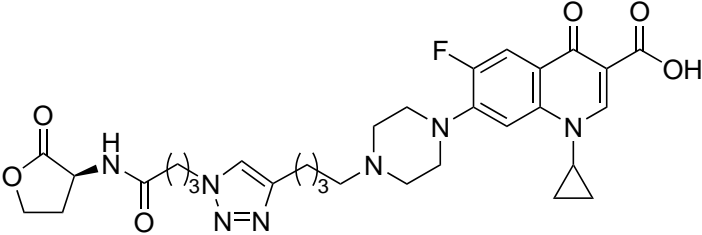
75

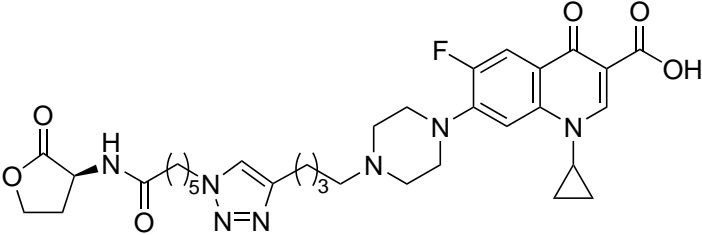


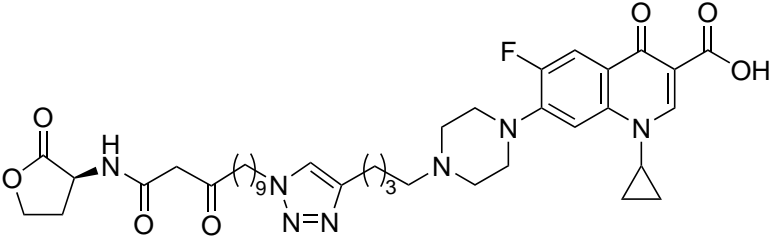
76



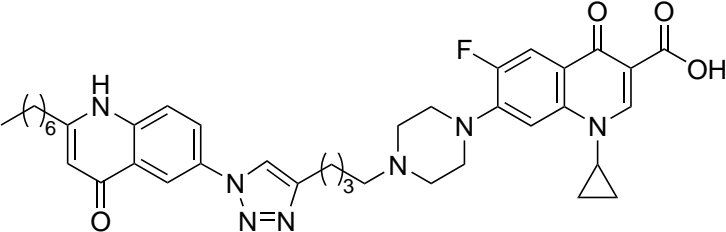


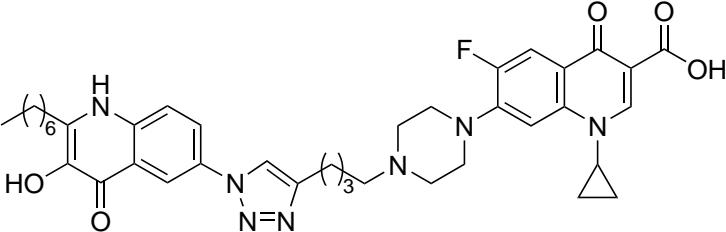


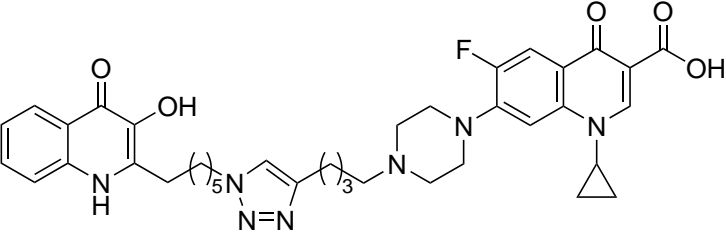


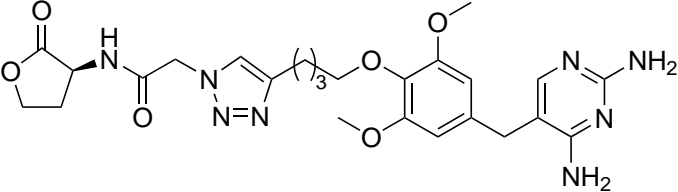


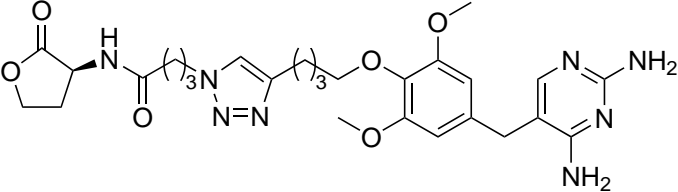


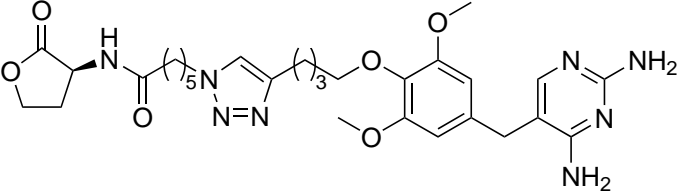


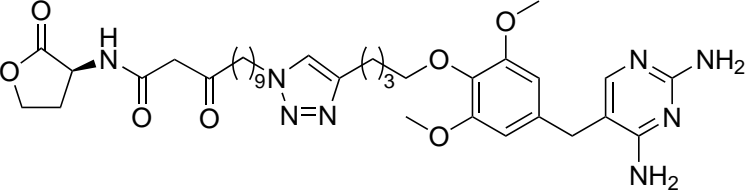


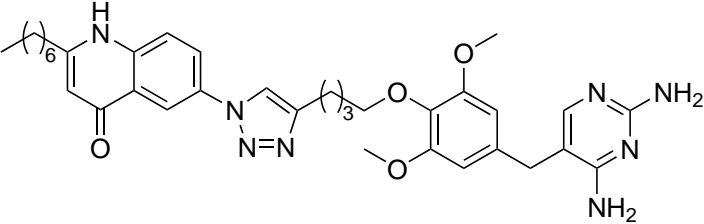




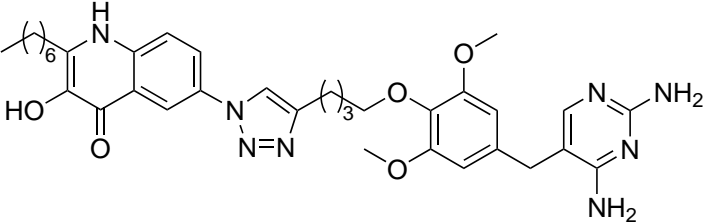


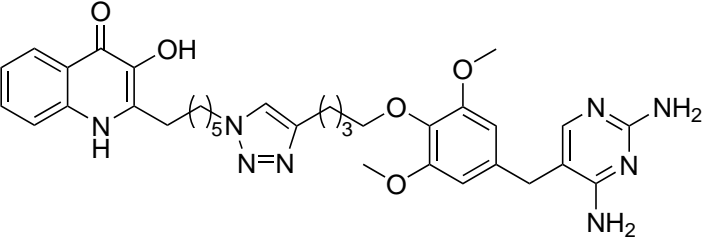


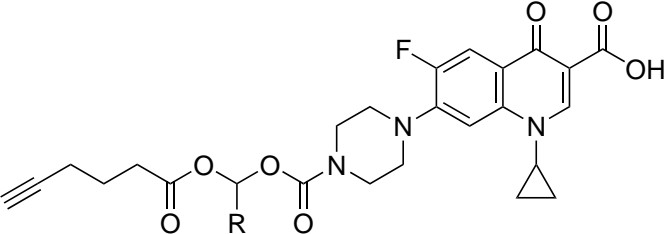






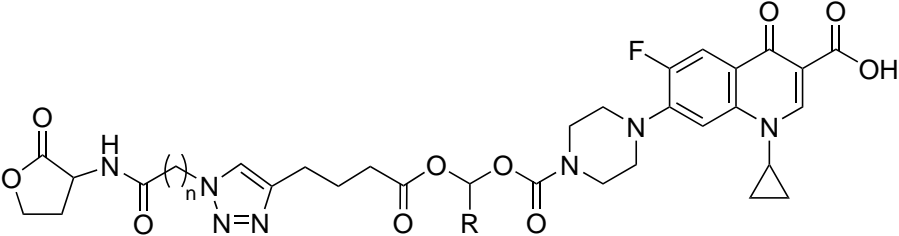






$R = H$  **90**

$R = Me$  **91**



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

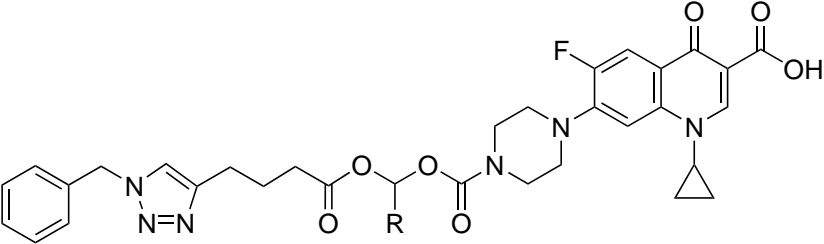
$n = 3, \text{R} = \text{H}$     **93**

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

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

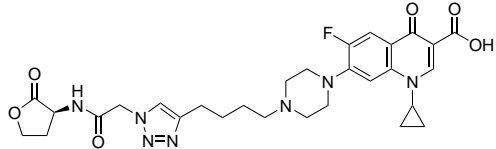
$n = 3, \text{R} = \text{Me}$     **96**

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

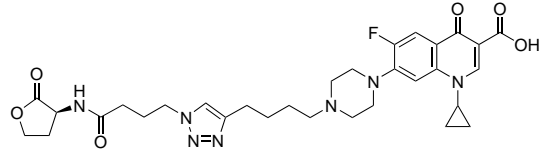


$\text{R} = \text{H}$     **98**

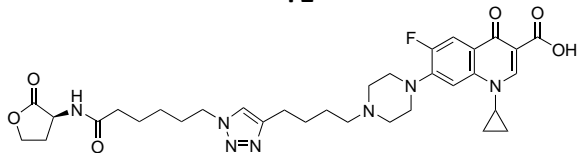
$\text{R} = \text{Me}$     **99**



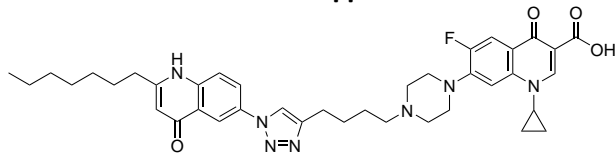
**72**



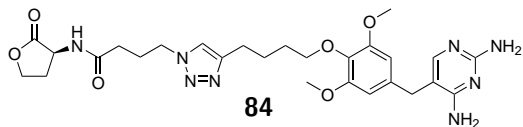
**77**



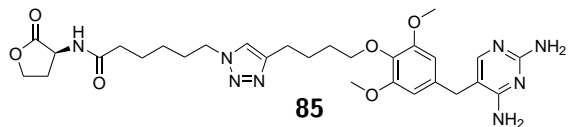
**78**



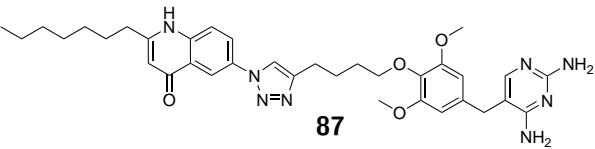
**80**



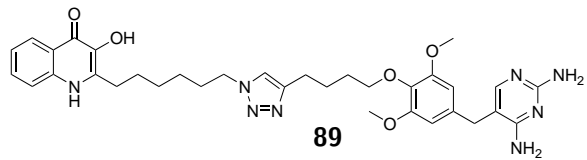
**84**



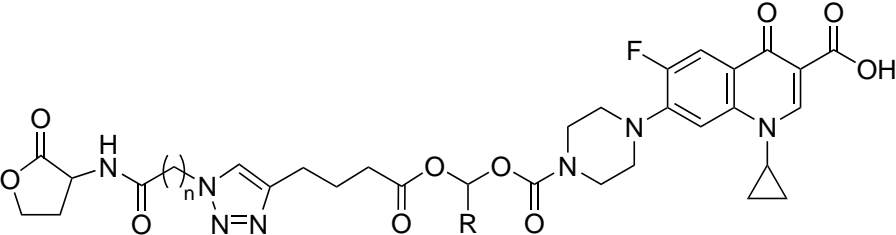
**85**



**87**



**89**



$n = 1$ ,  $R = H$  **92**

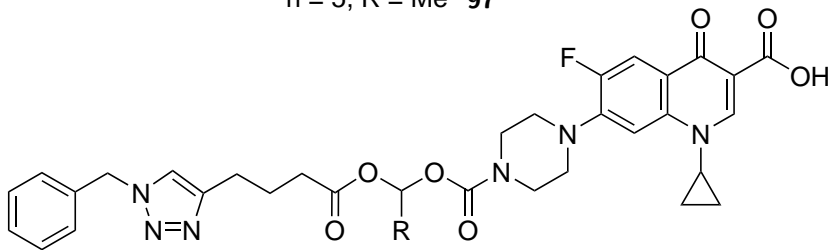
$n = 3$ ,  $R = H$  **93**

$n = 5$ ,  $R = H$  **94**

$n = 1$ ,  $R = Me$  **95**

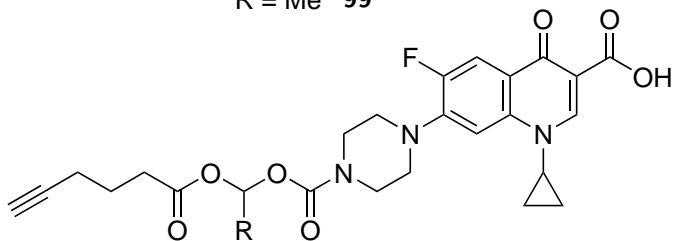
$n = 3$ ,  $R = Me$  **96**

$n = 5$ ,  $R = Me$  **97**



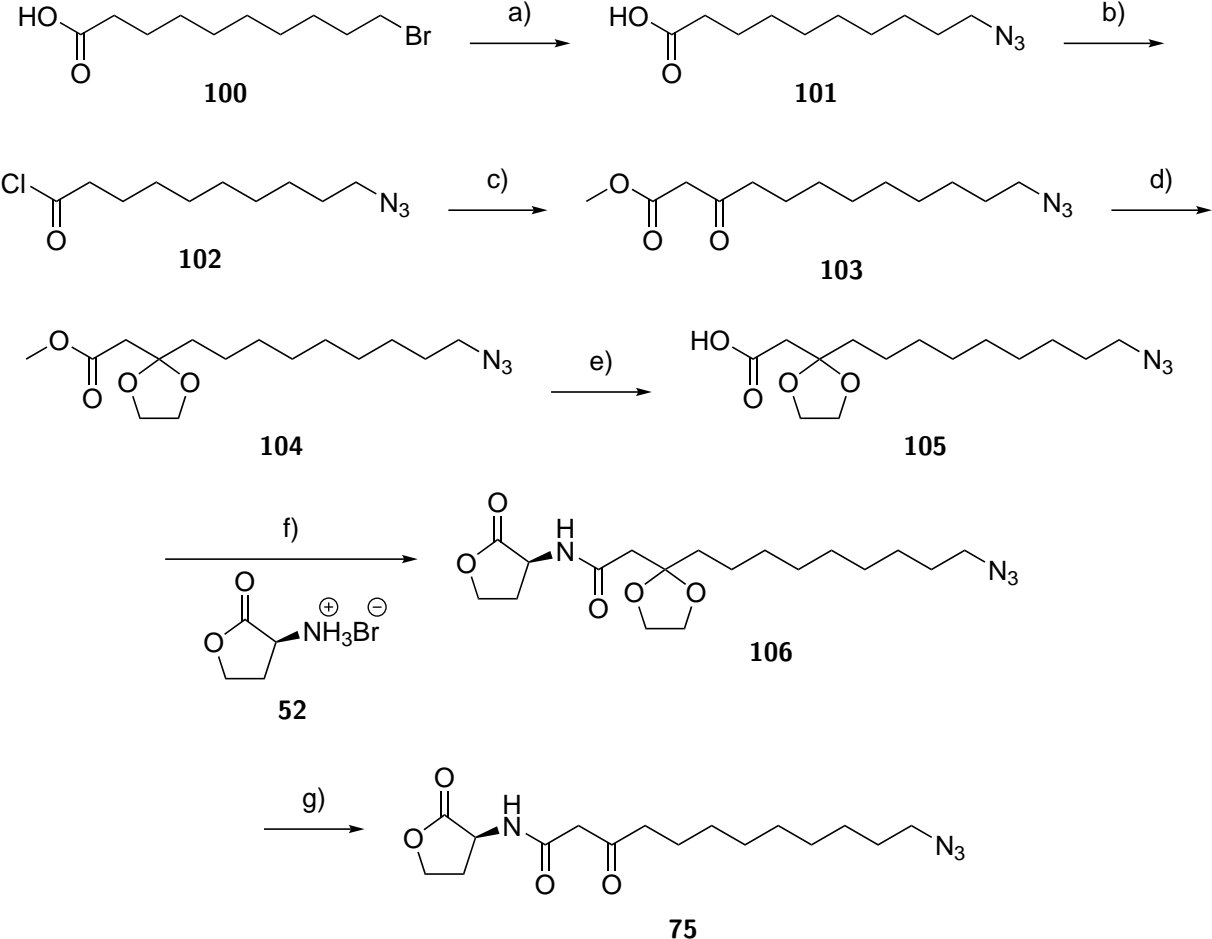
$R = H$  **98**

$R = Me$  **99**

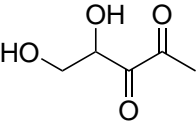


$R = H$  **90**

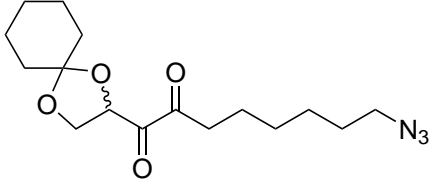
$R = Me$  **91**



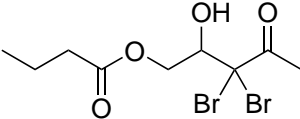




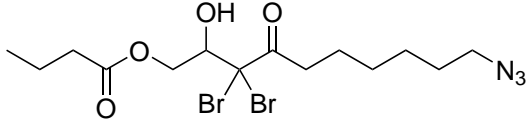
Al-2  
23



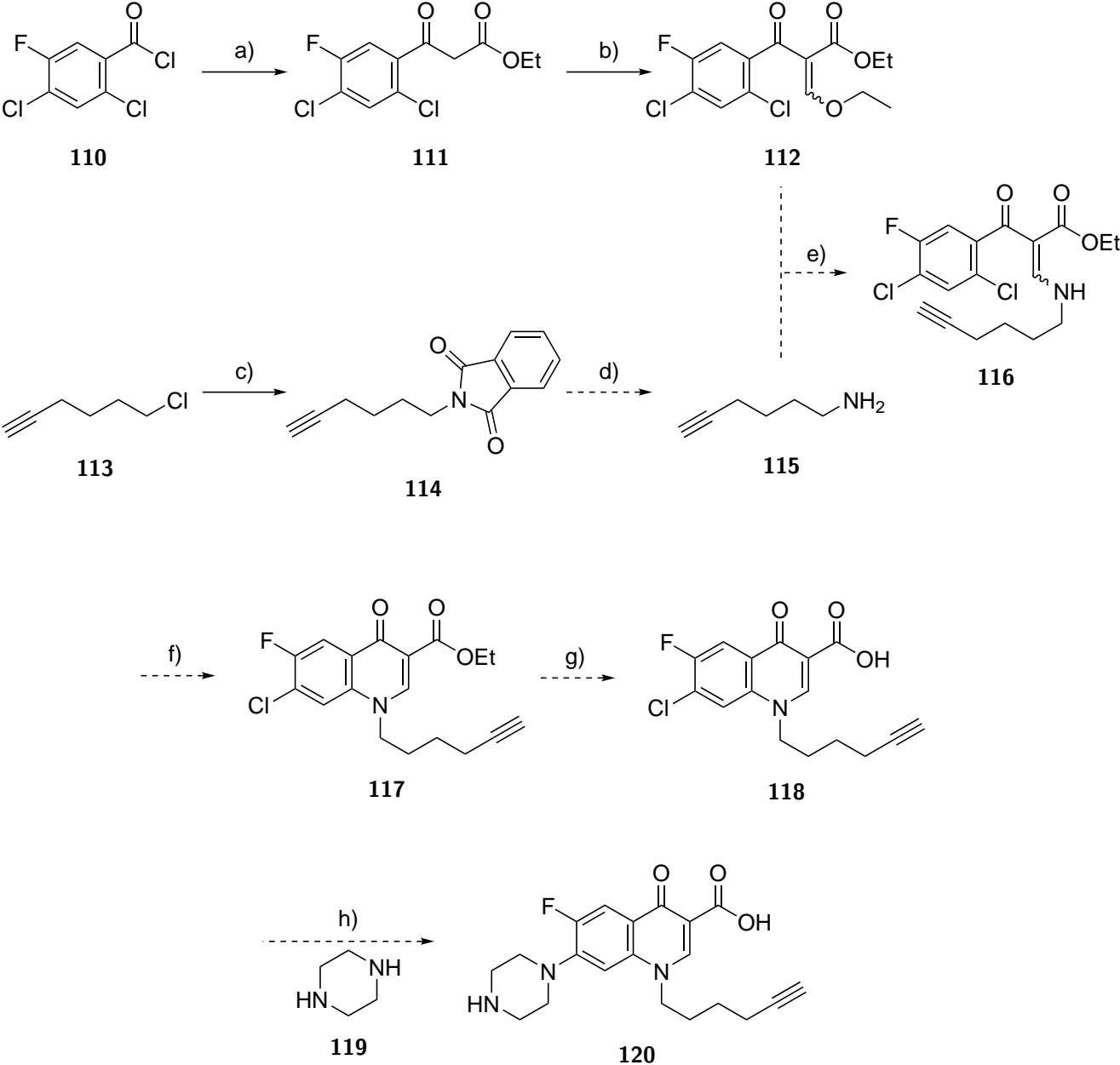
107

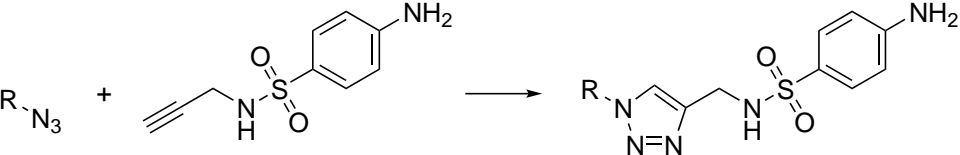


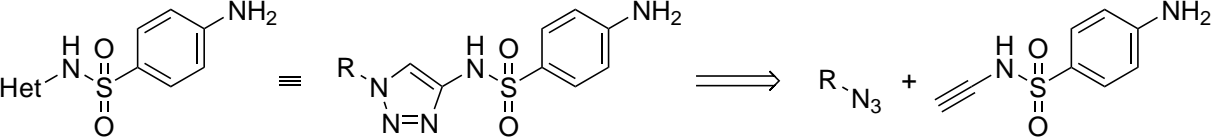
108

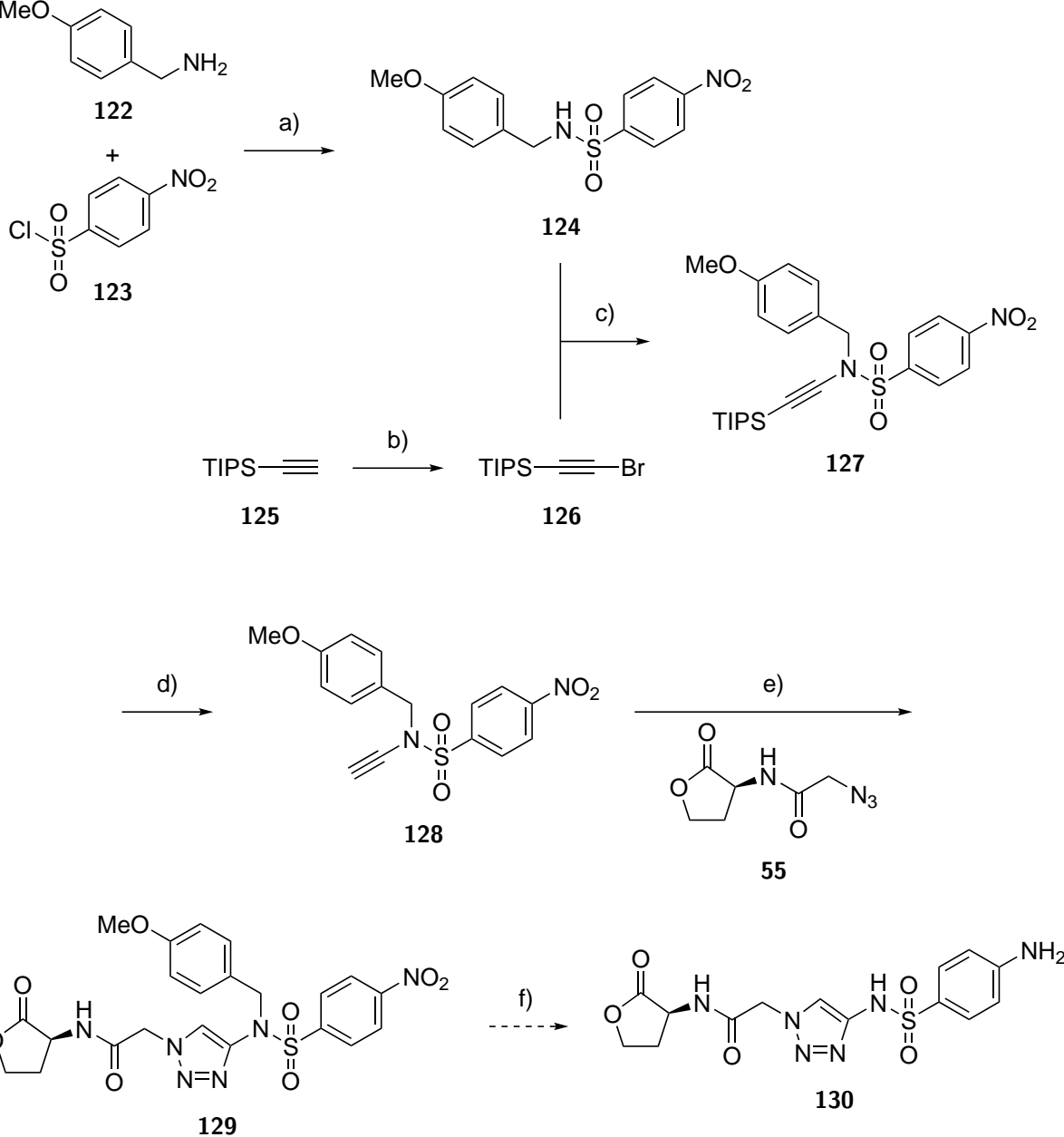


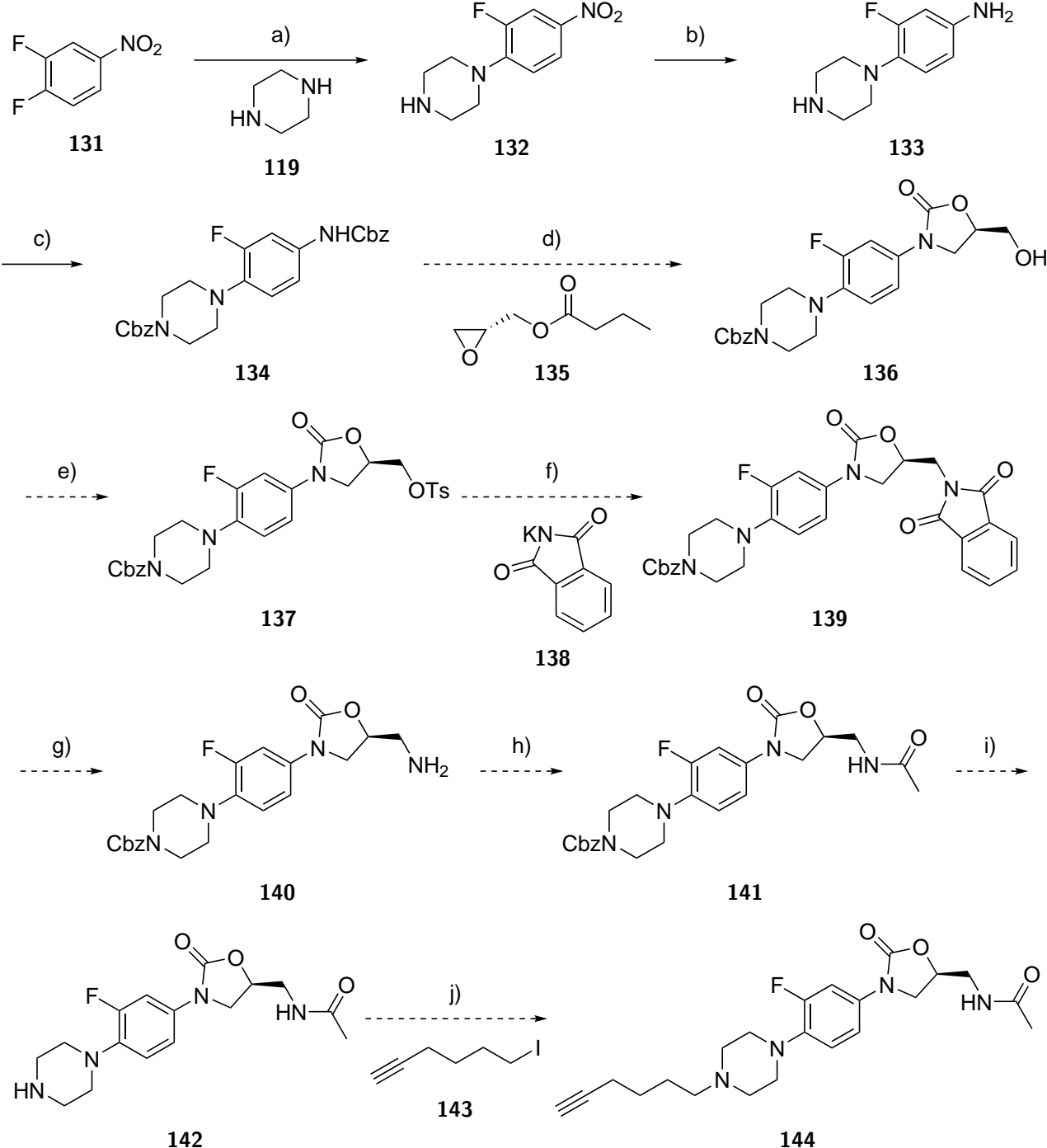
109

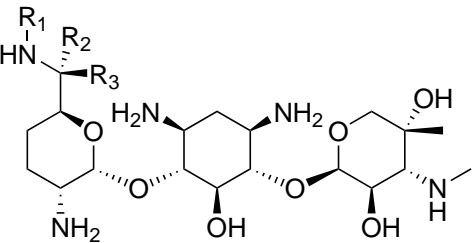






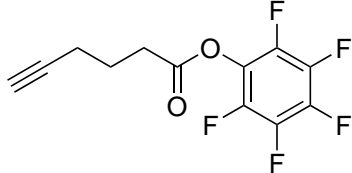






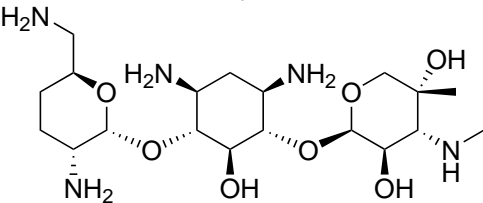
Gentamicin	$R_1$	$R_2$	$R_3$
C1	Me	Me	H
C1a	H	H	H
C2	H	Me	H
C2a	H	H	Me
C2b	Me	H	H



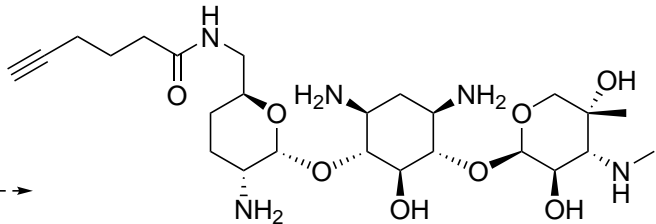
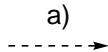


145

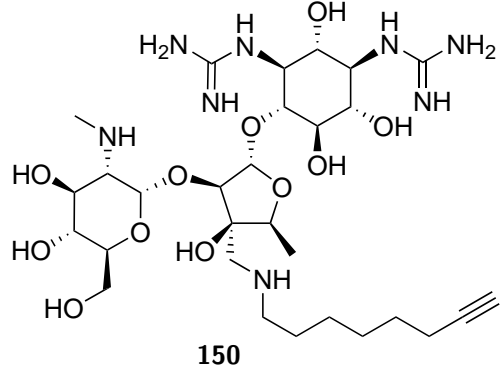
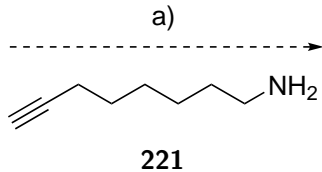
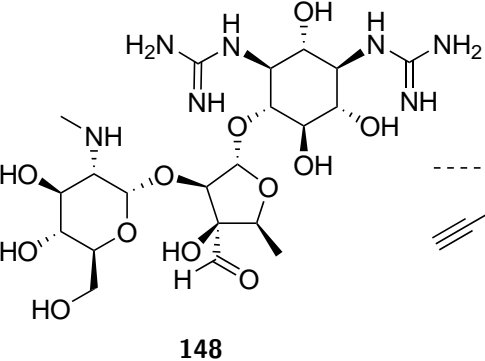
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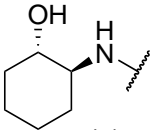
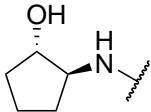
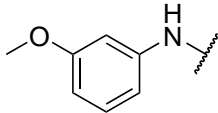
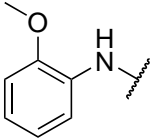
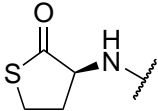


146

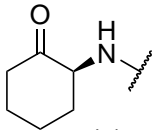


147



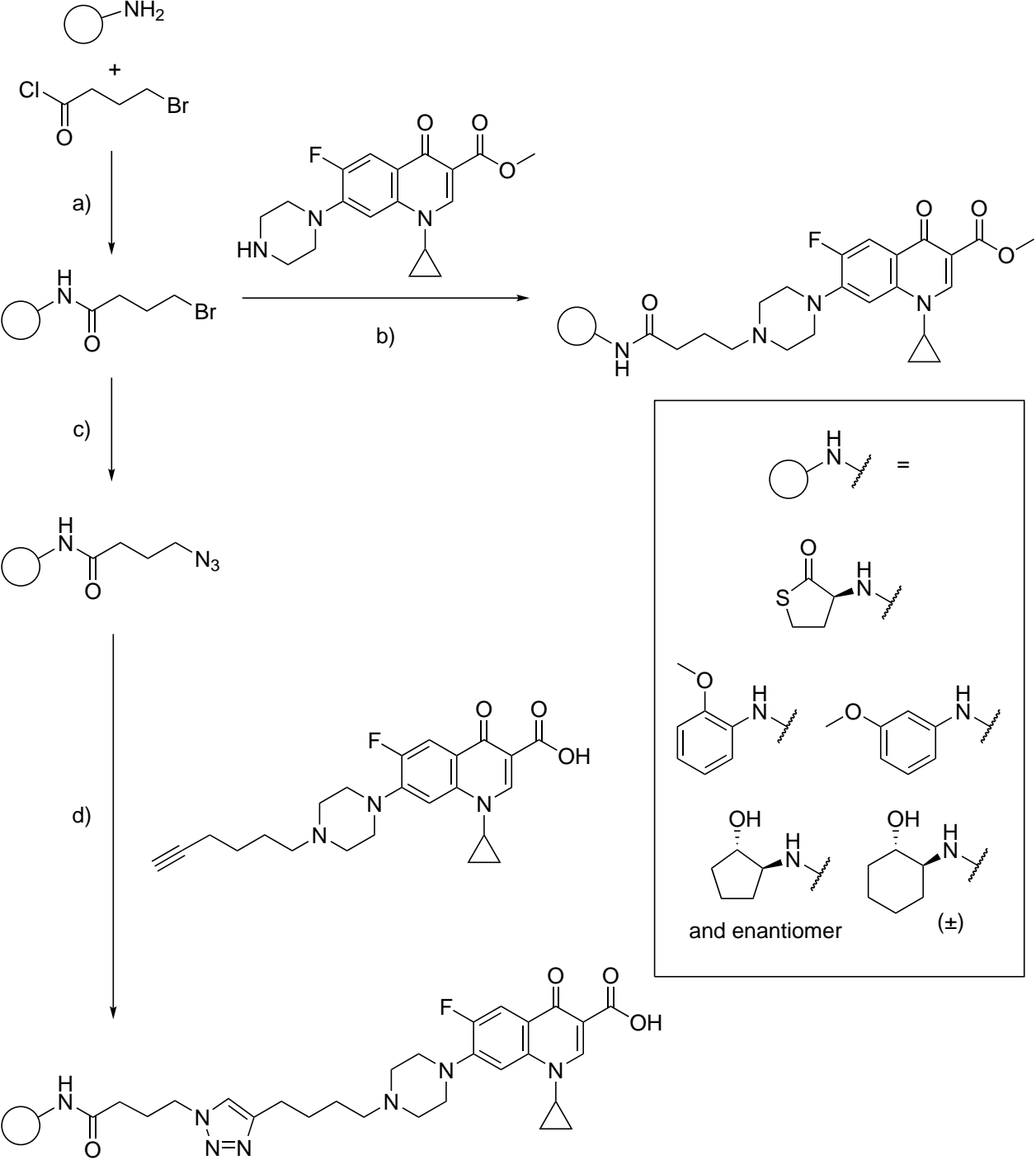


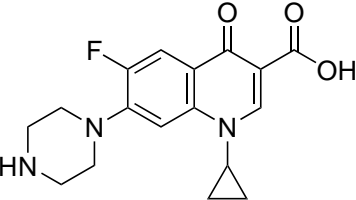
(±)



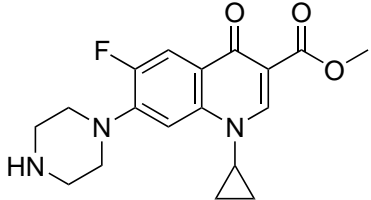
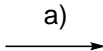
(±)

and enantiomer

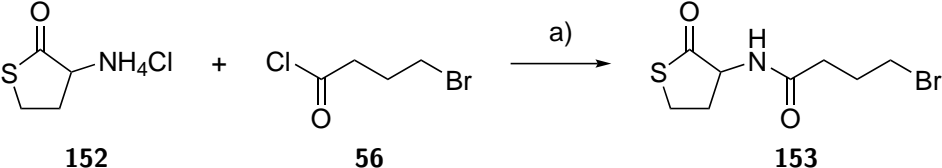


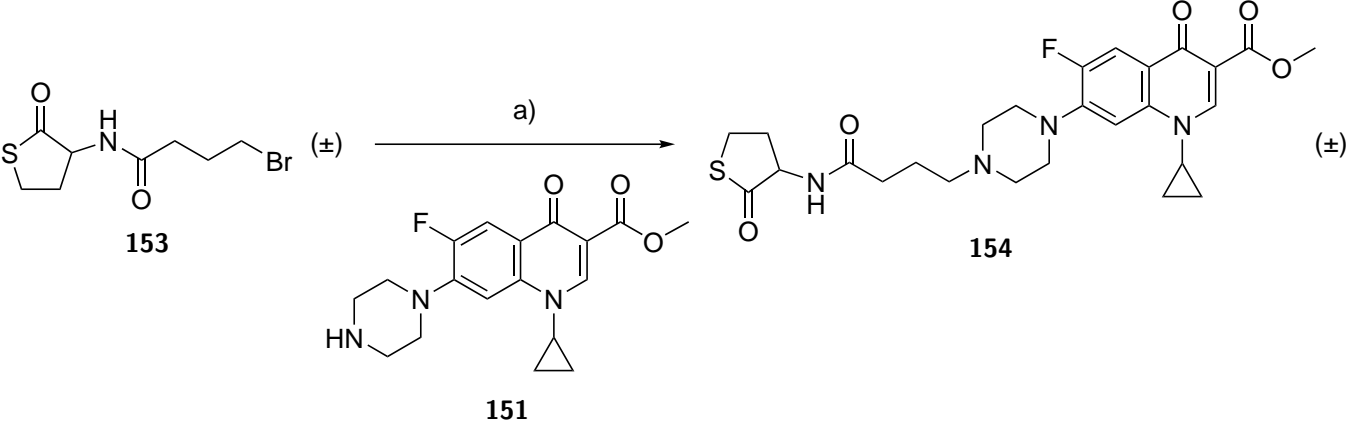


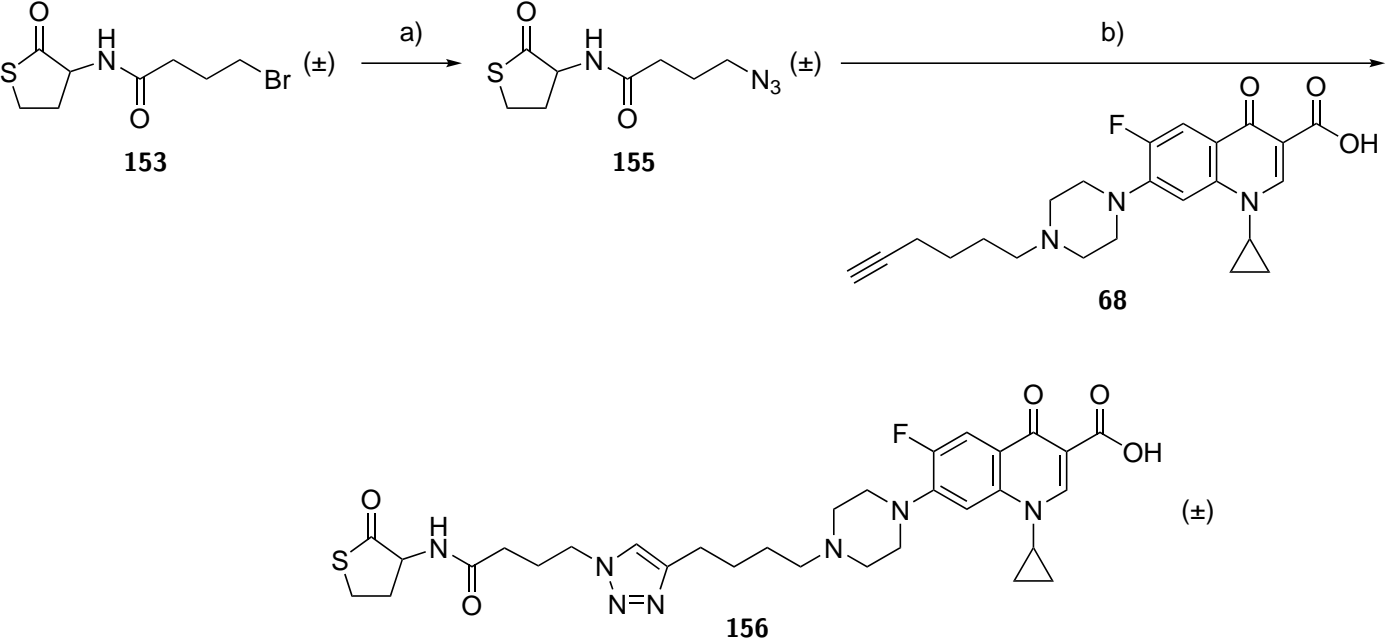
24



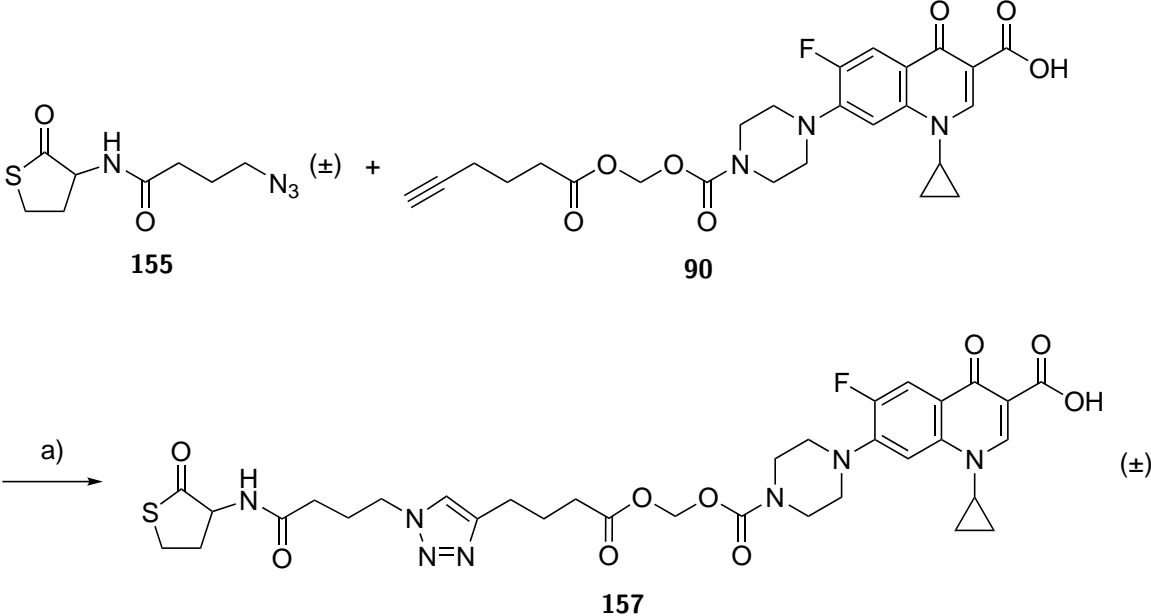
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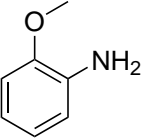






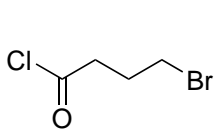




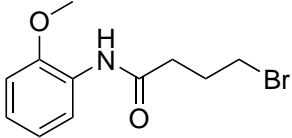
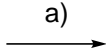


**158**

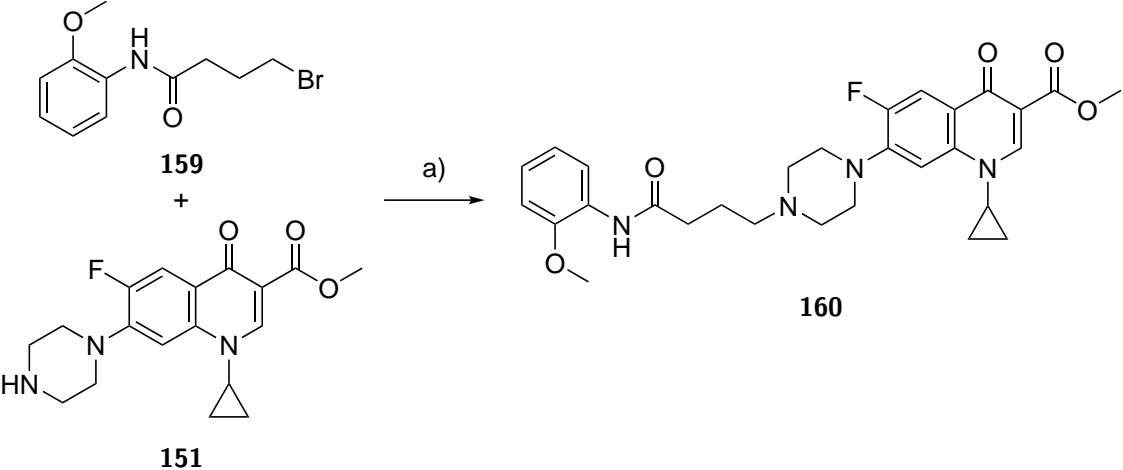
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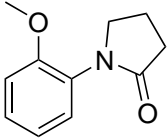
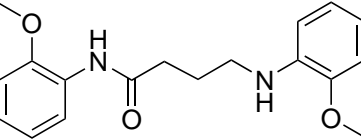
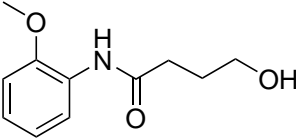


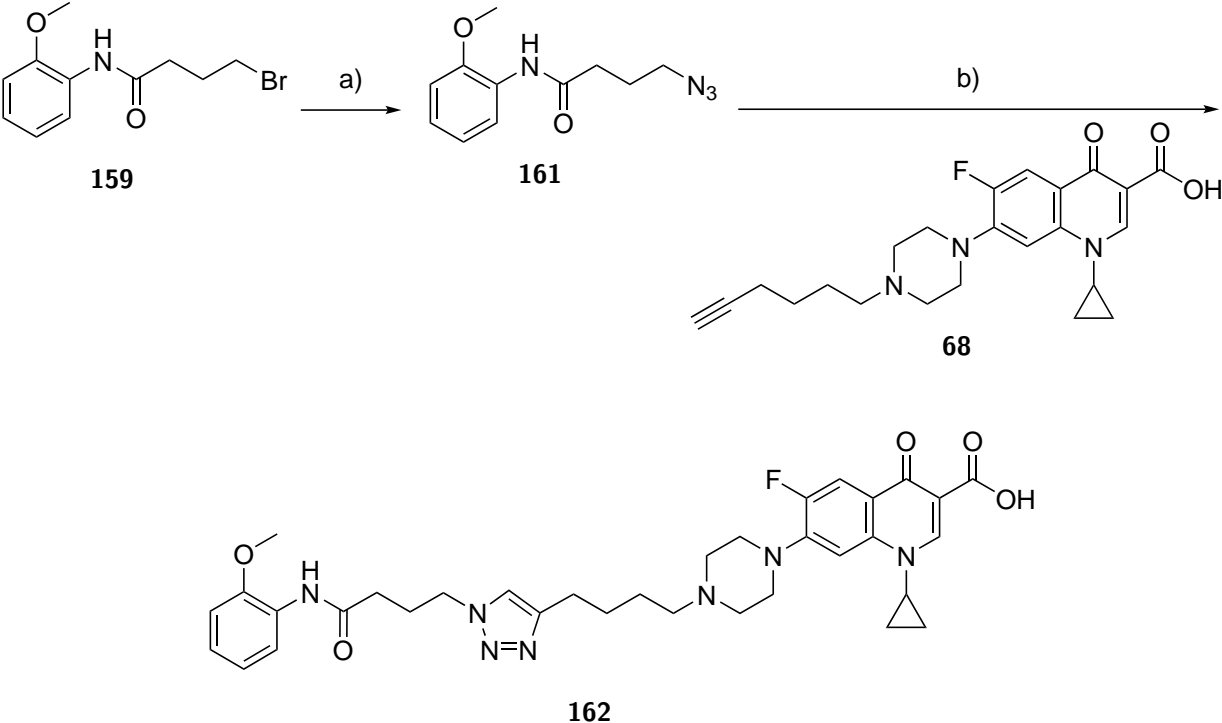
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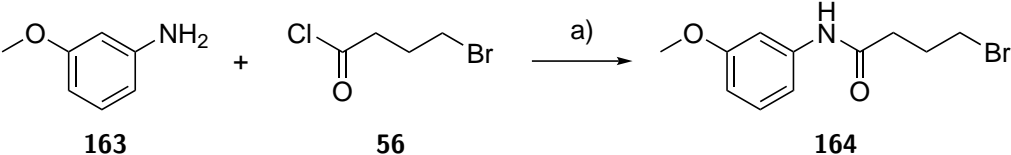


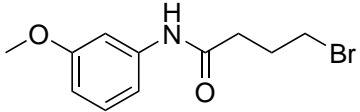
**159**





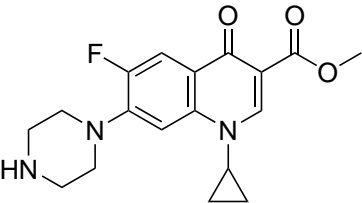




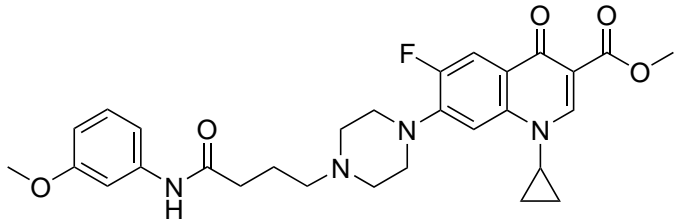
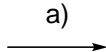


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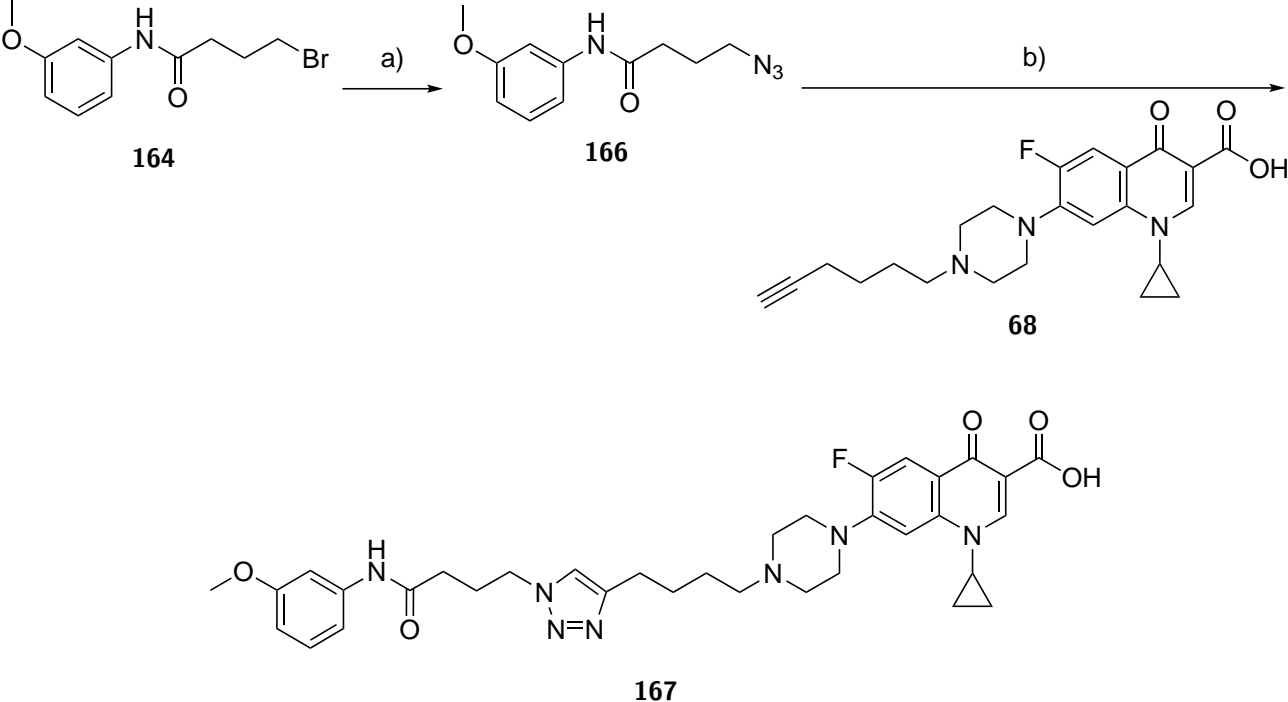
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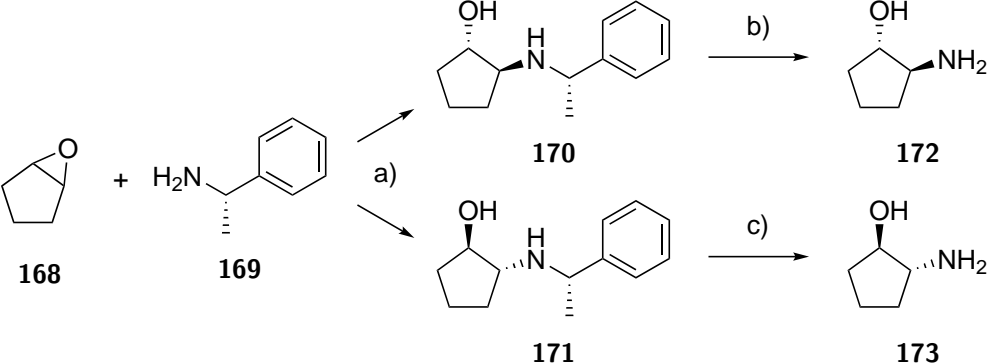
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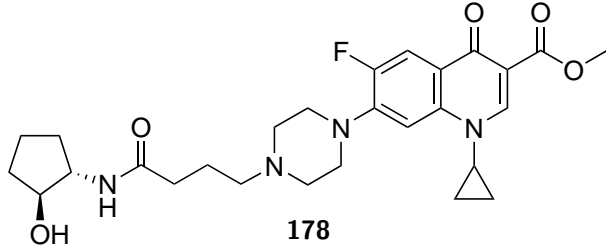


165



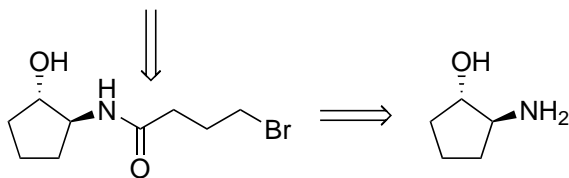






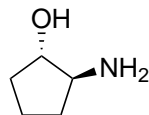
178

179



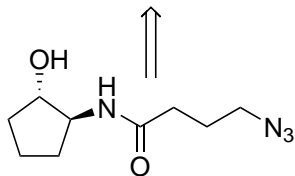
174

175



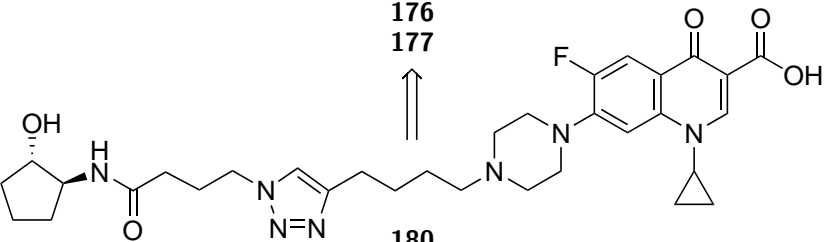
172

173



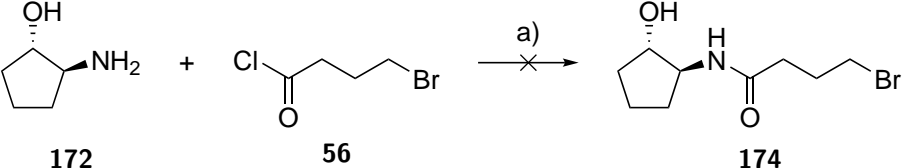
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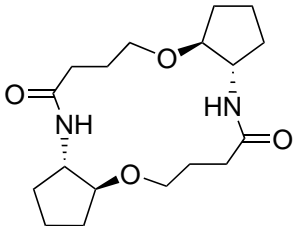
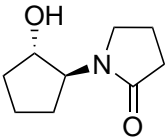
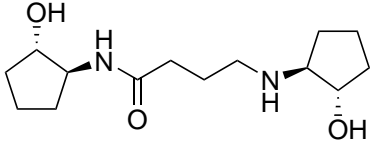
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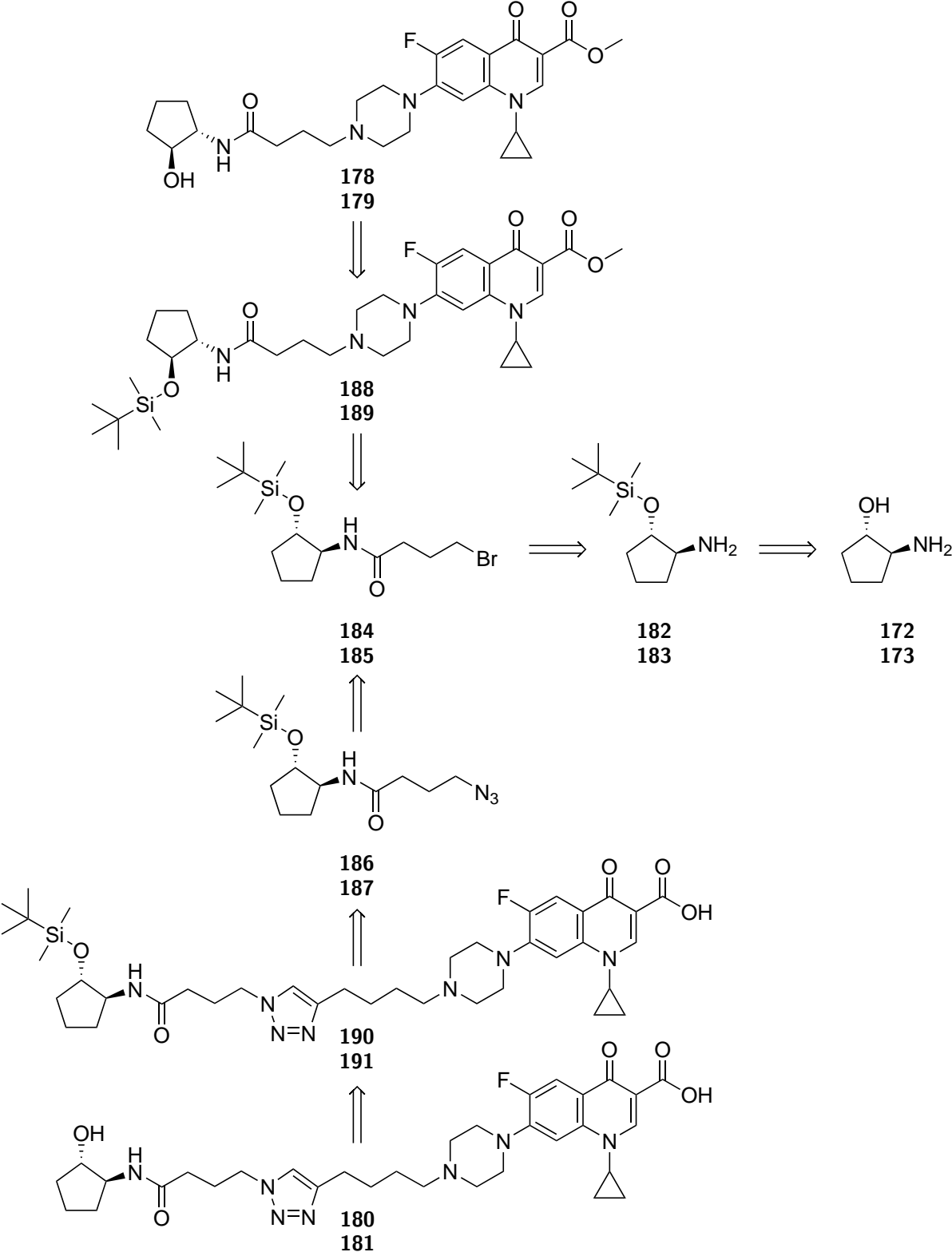


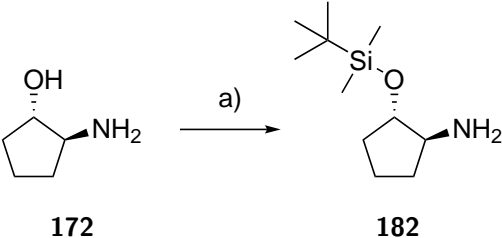
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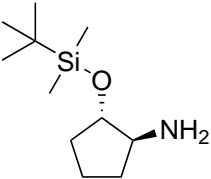
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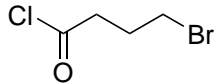




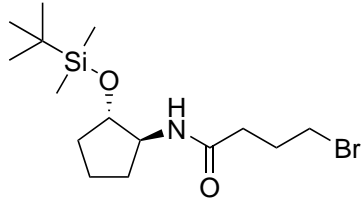
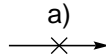


**182**

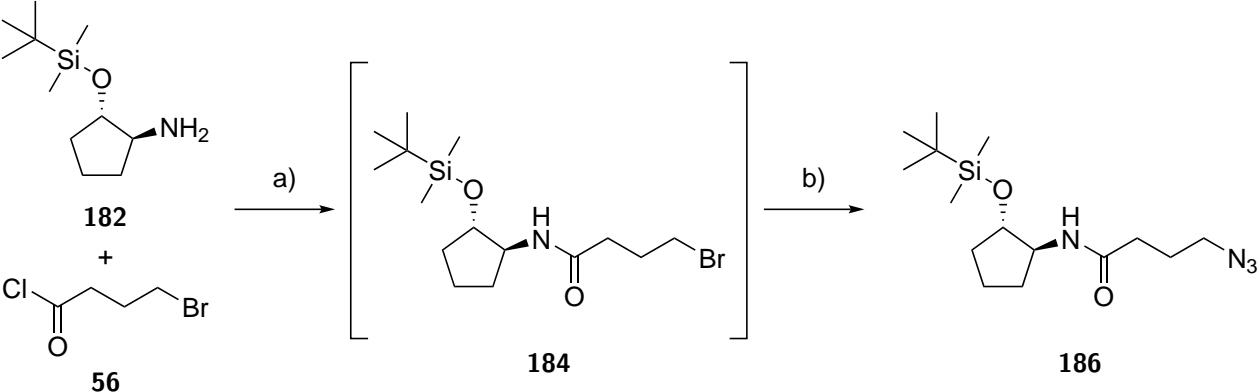
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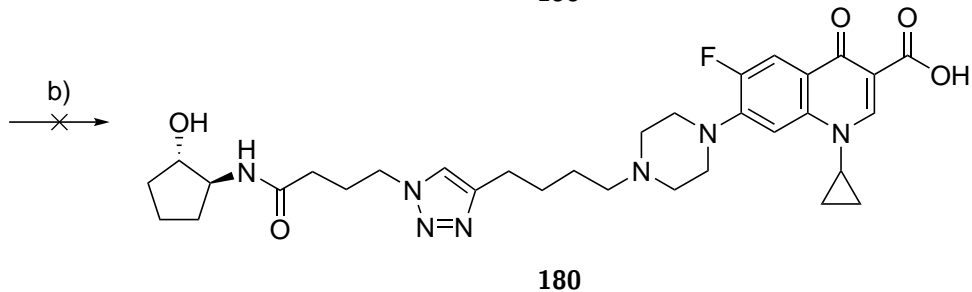
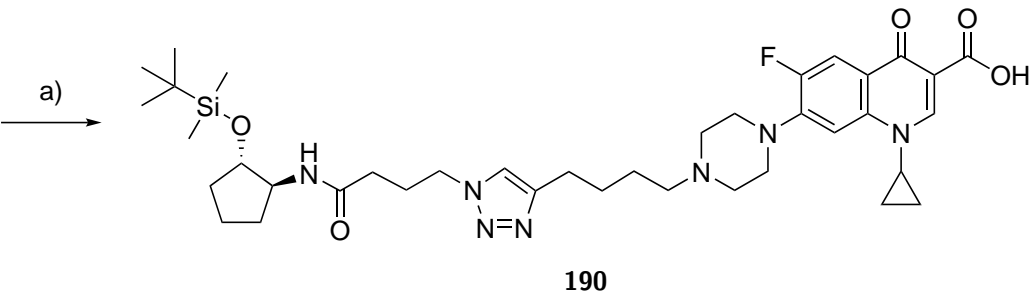
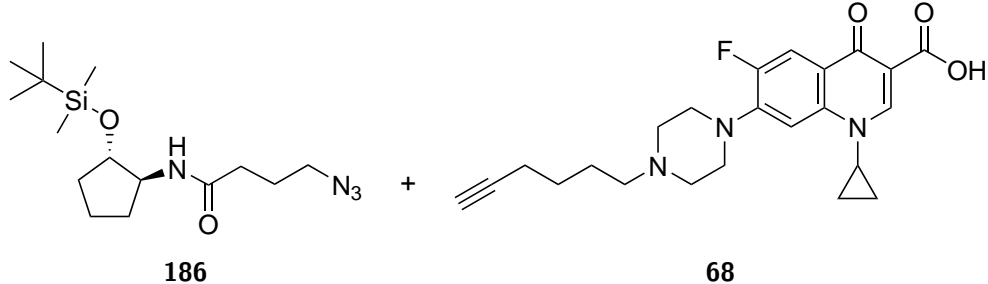
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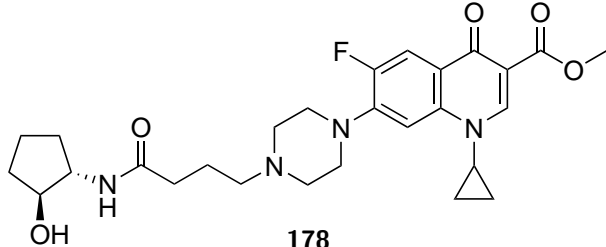


**184**



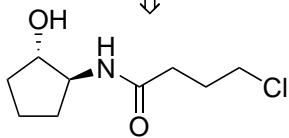






178

179



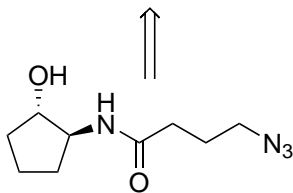
193

194



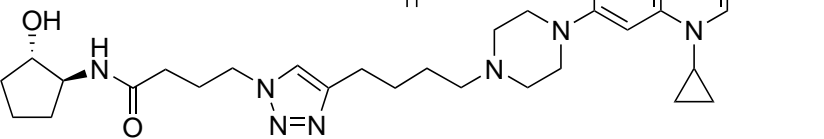
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173



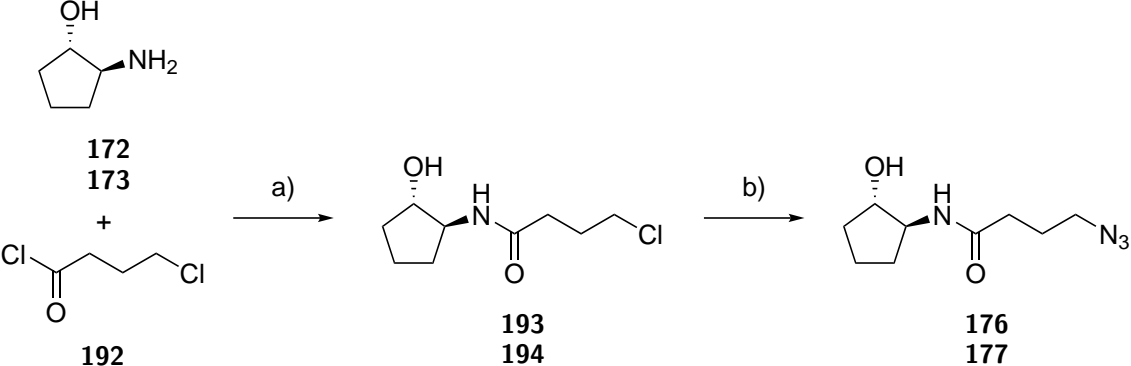
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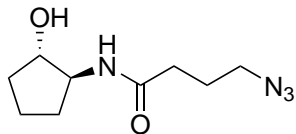
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180

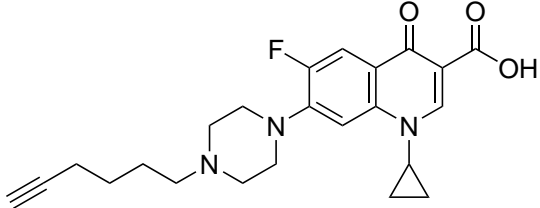
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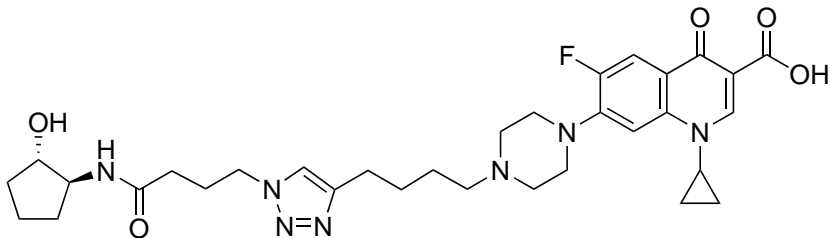
176  
177

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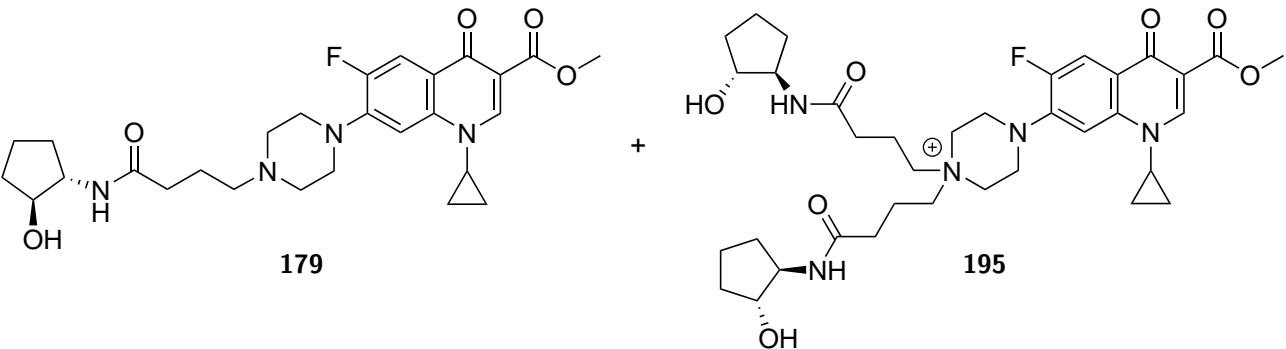
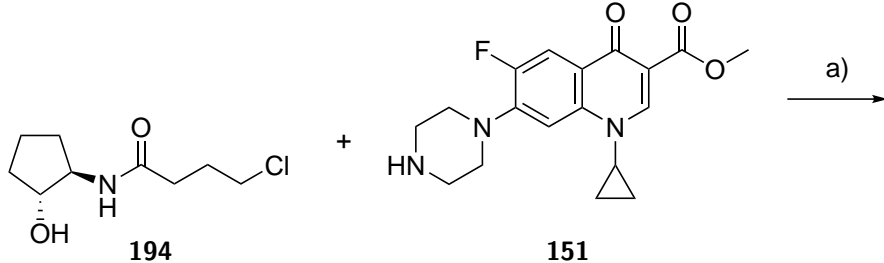


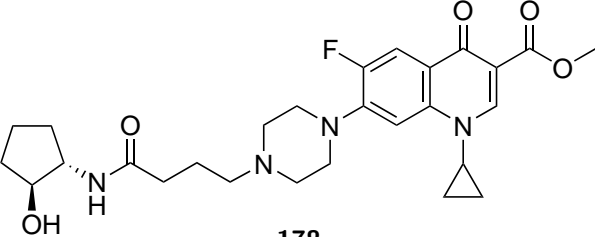
68

a) →



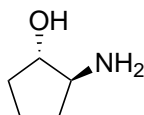
180  
181





178

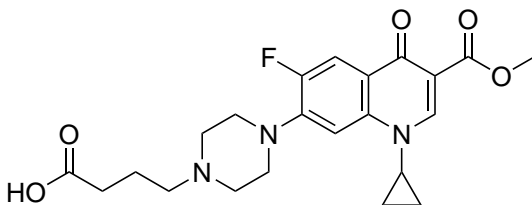
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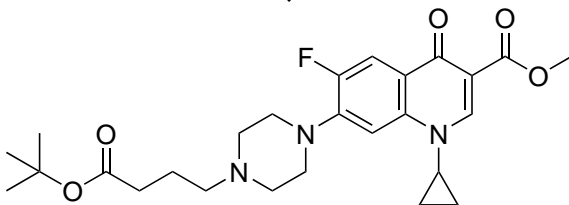
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173

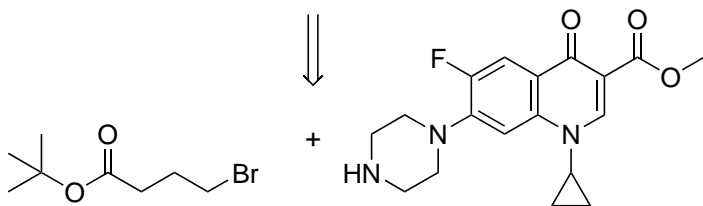
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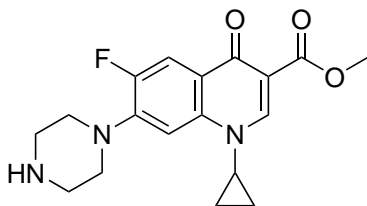
198



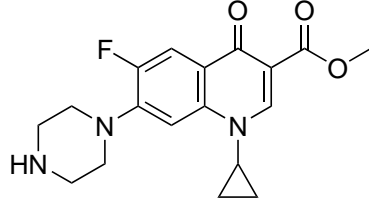
197



196

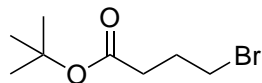


151



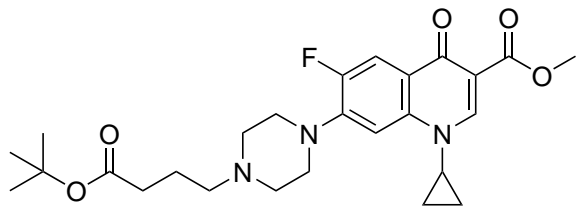
**151**

+



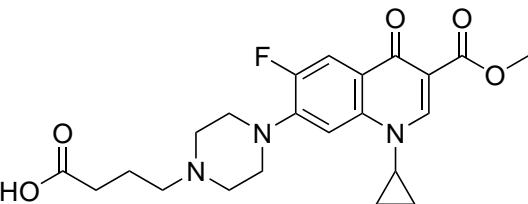
**196**

a)



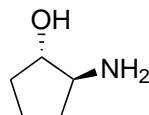
**197**

b)



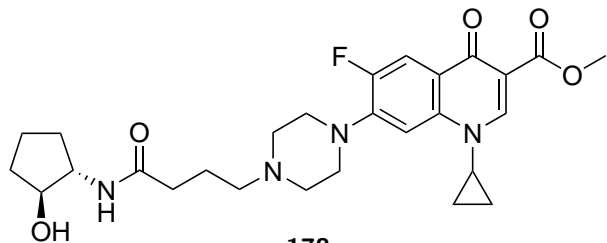
**198**

c)



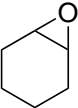
**172**

**173**

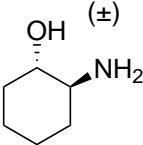
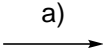


**178**

**179**

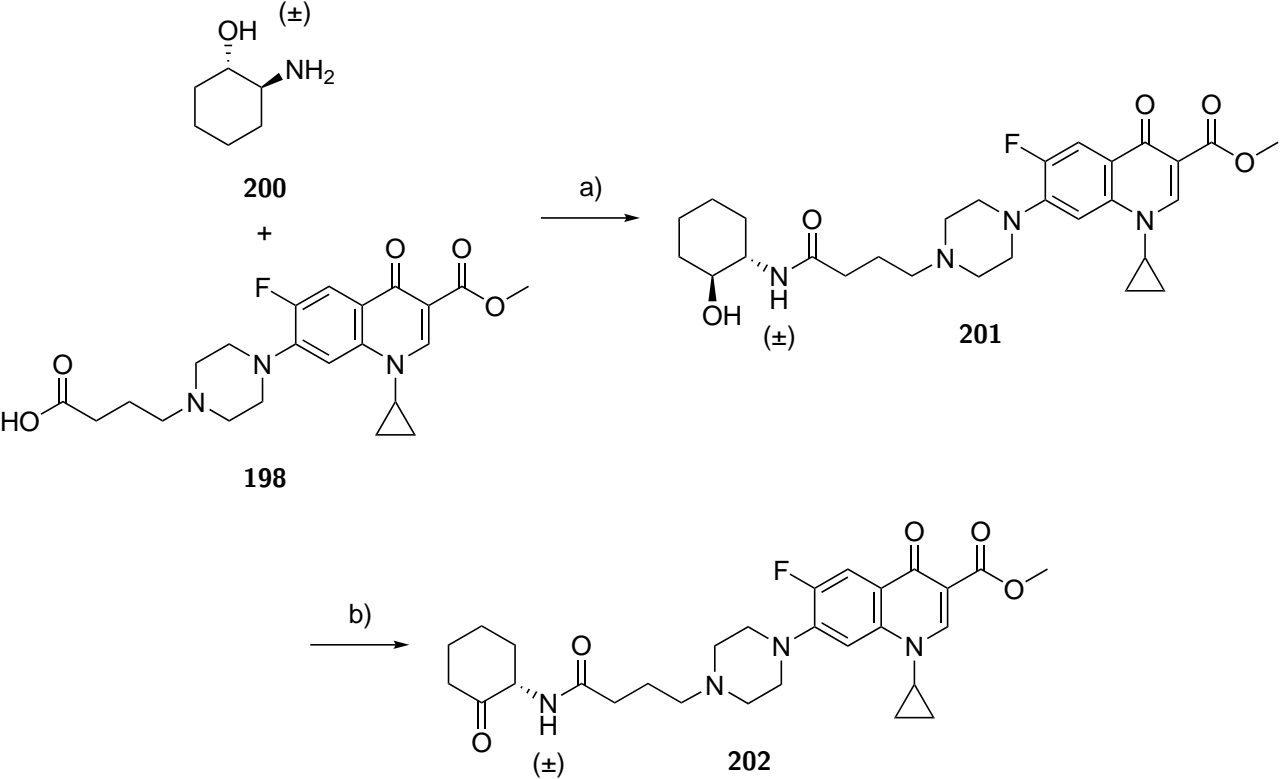


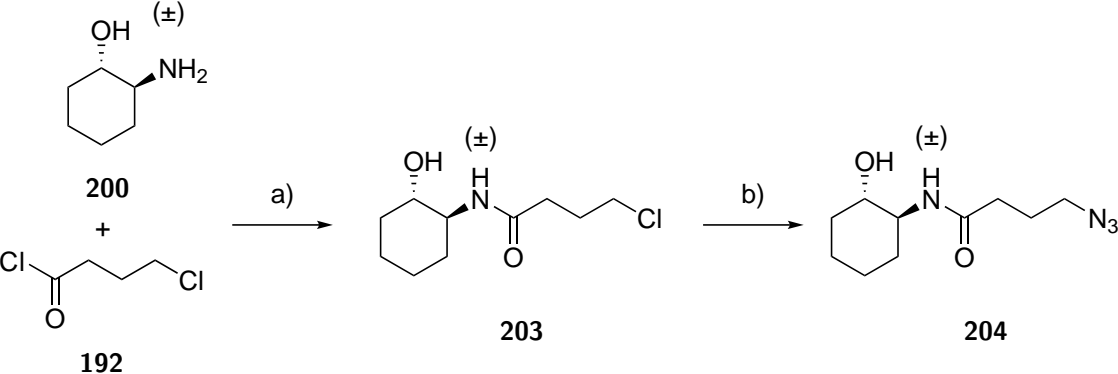
199

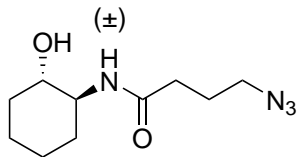


200



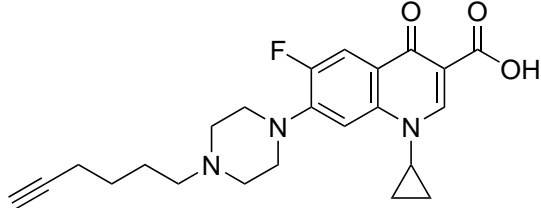






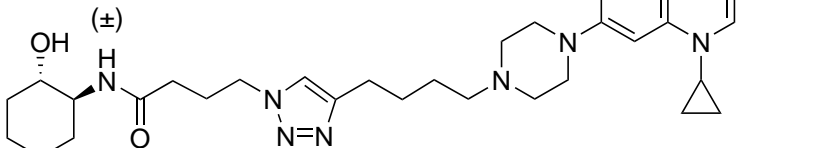
**204**

+



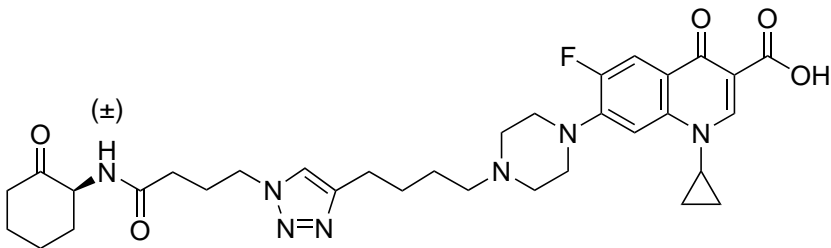
**68**

a)

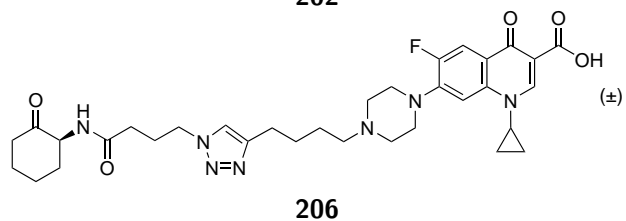
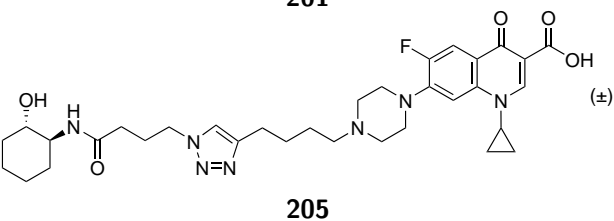
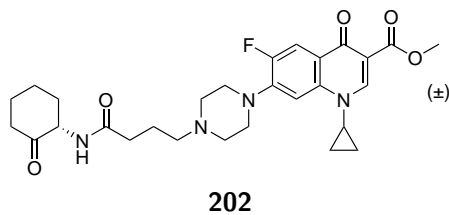
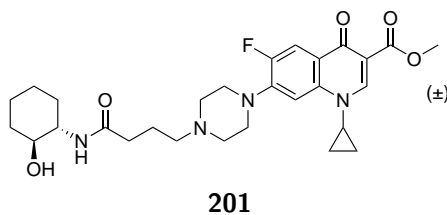
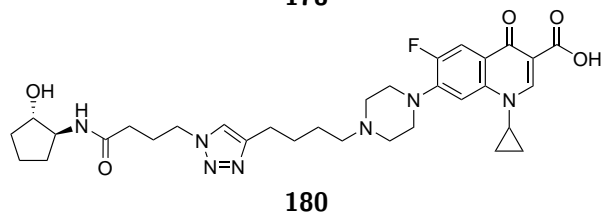
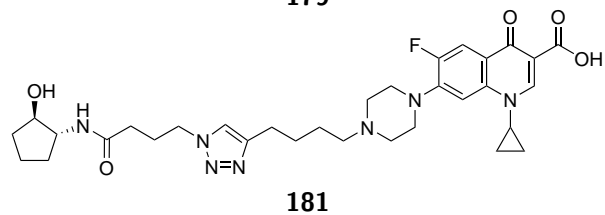
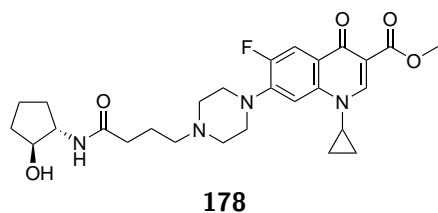
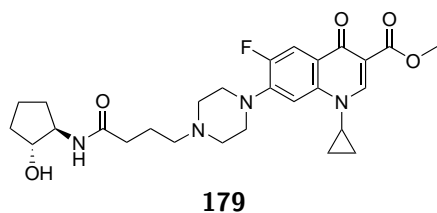
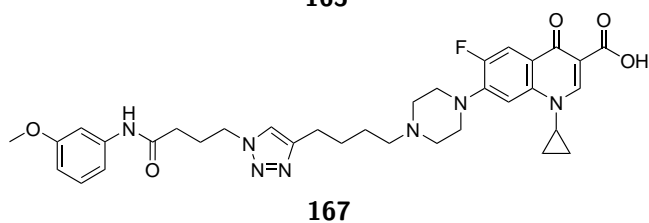
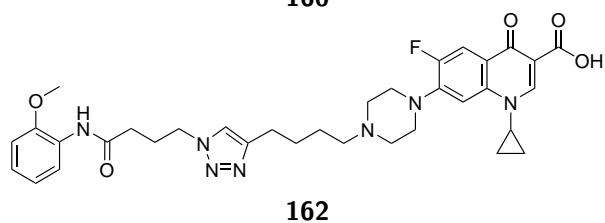
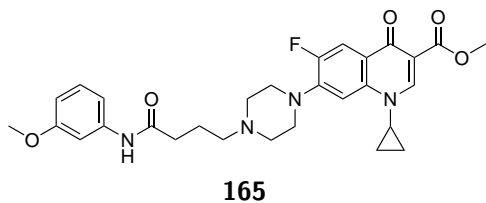
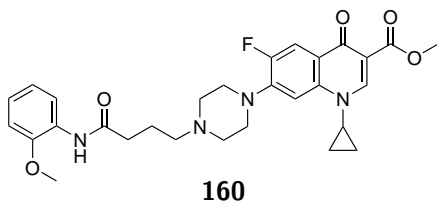
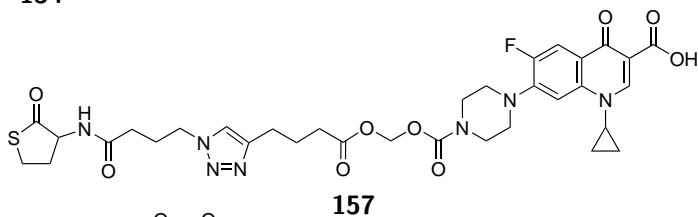
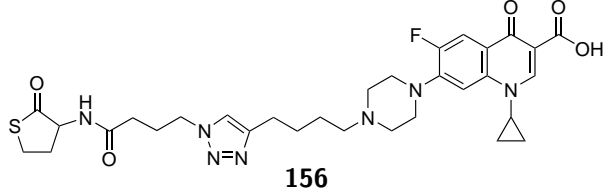
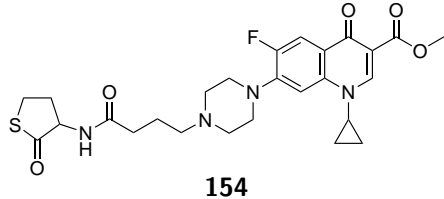


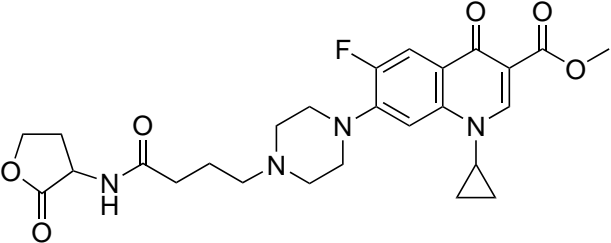
**205**

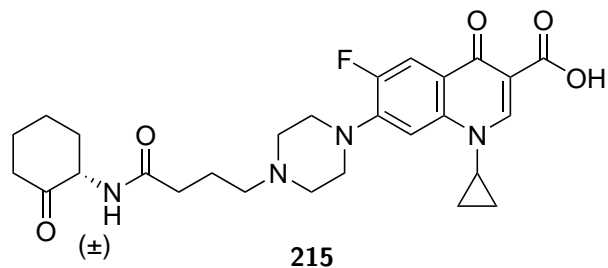
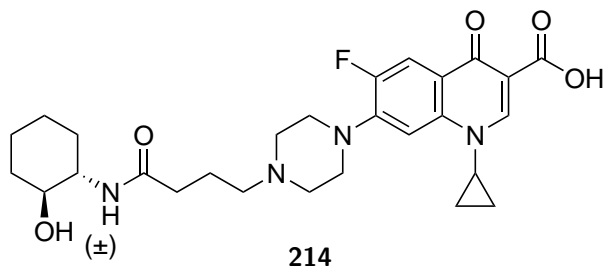
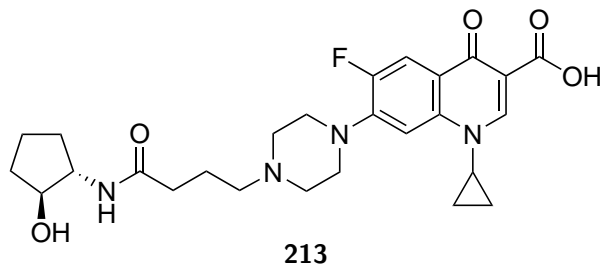
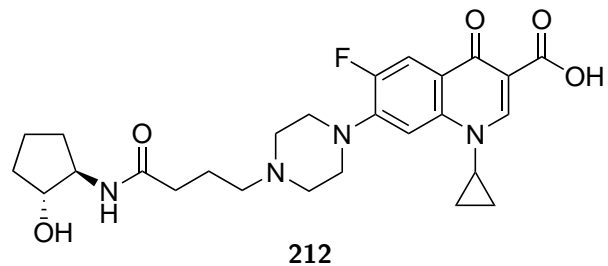
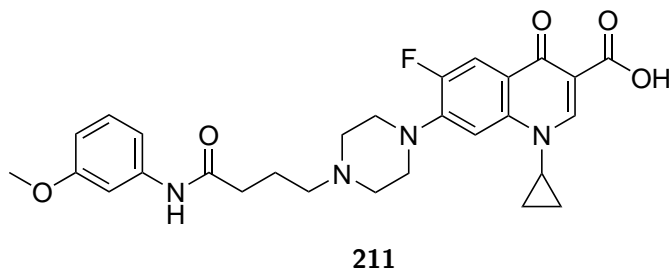
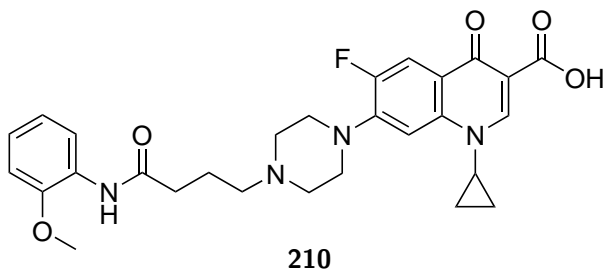
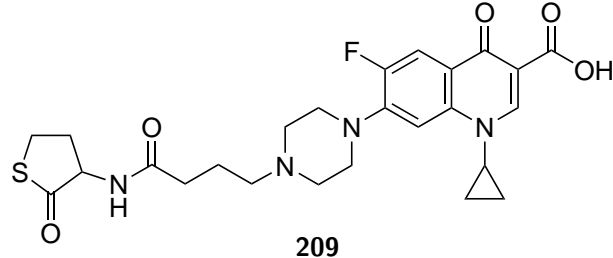
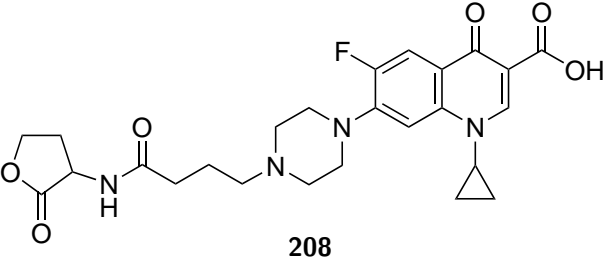
b)

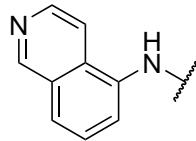
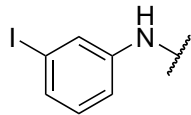
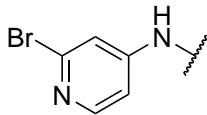
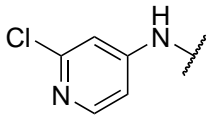
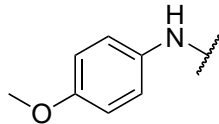
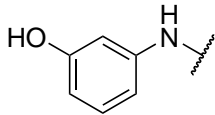
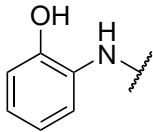
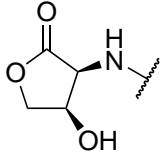
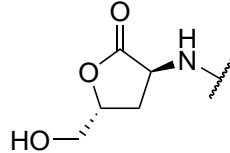
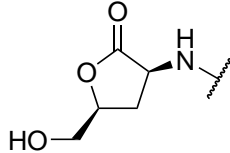
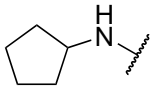
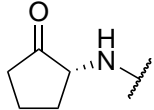
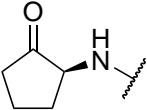


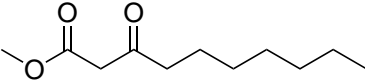
**206**



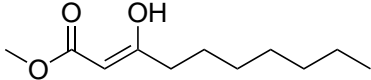






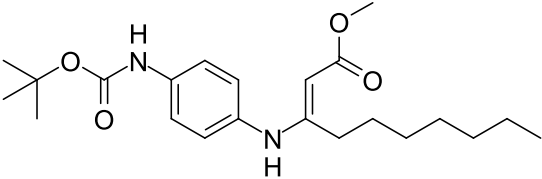


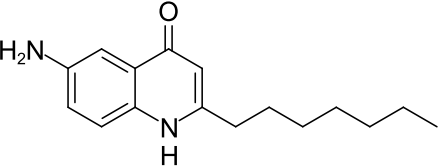
33  
92 %

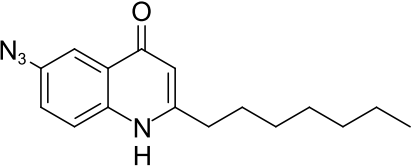


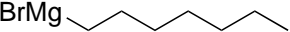
34  
8 %

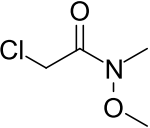


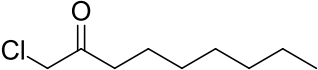


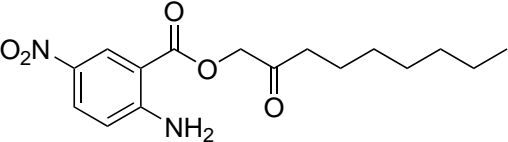


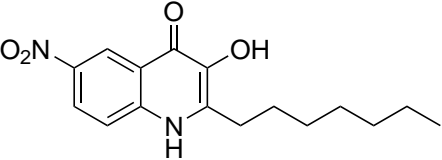




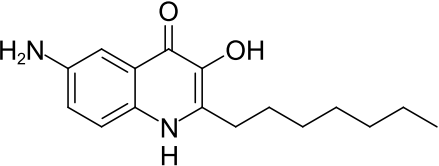


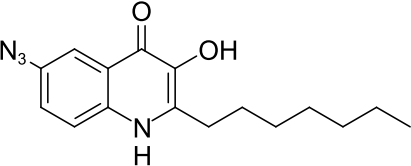


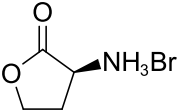


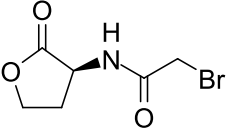


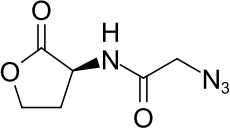


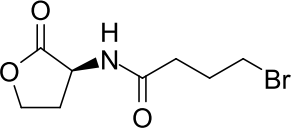


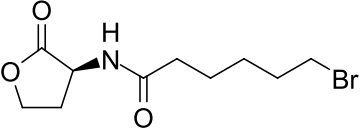


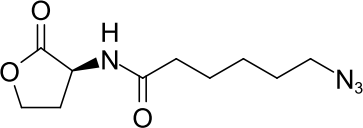




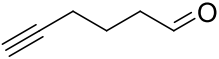


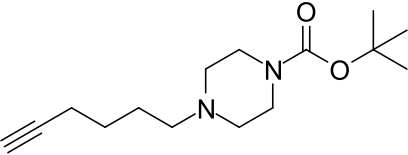


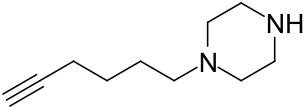


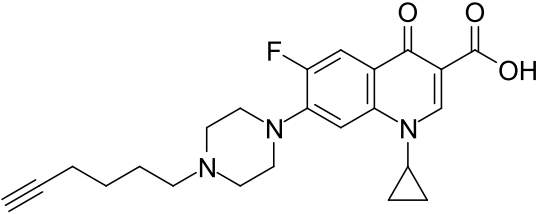


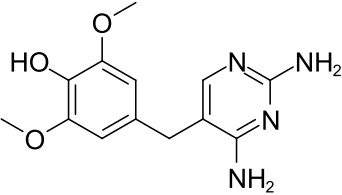


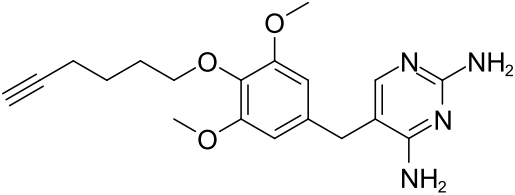


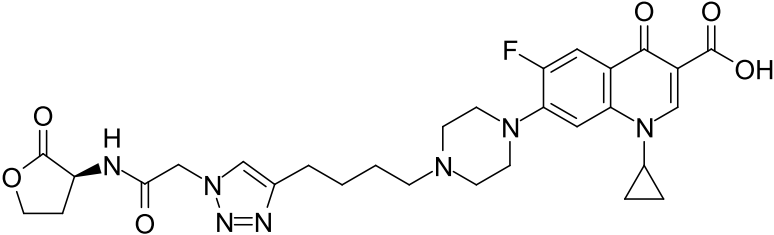


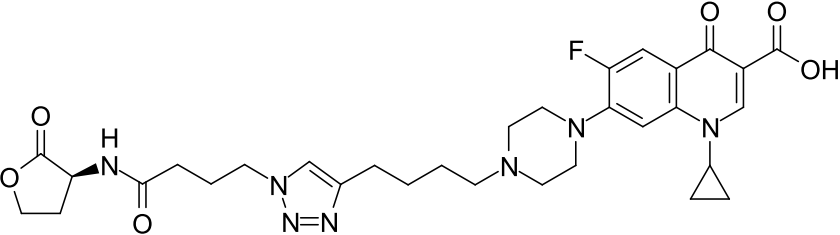




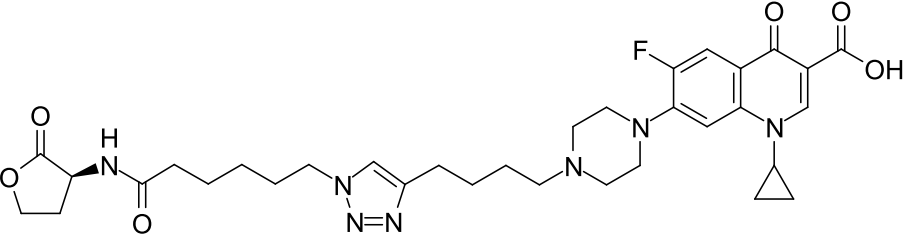


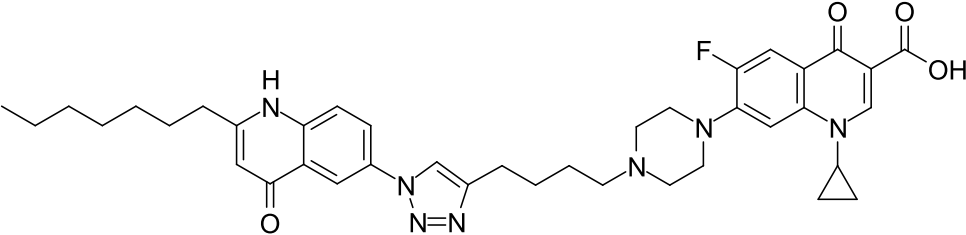


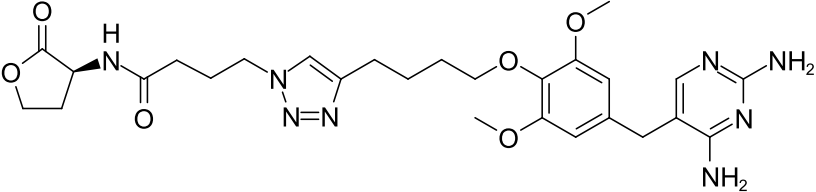


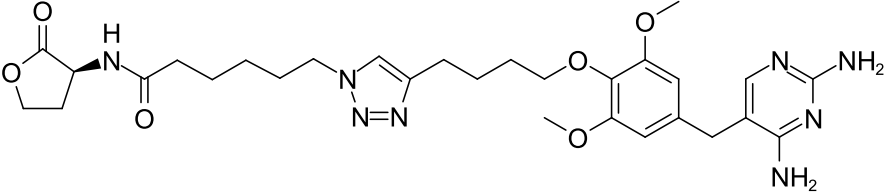


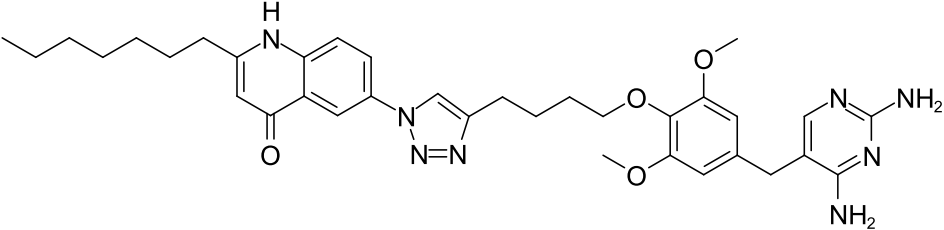


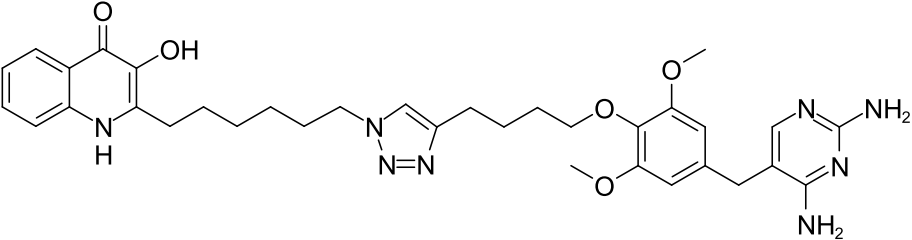


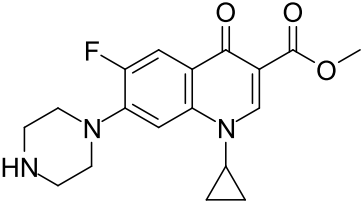


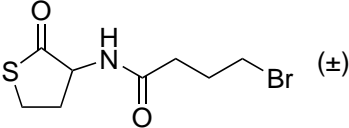




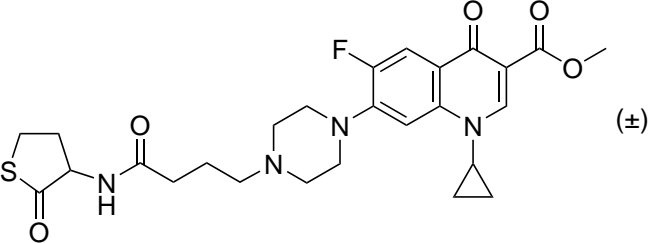


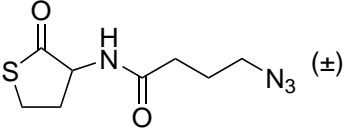


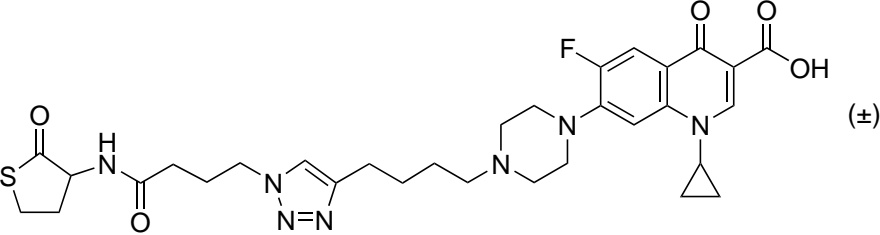


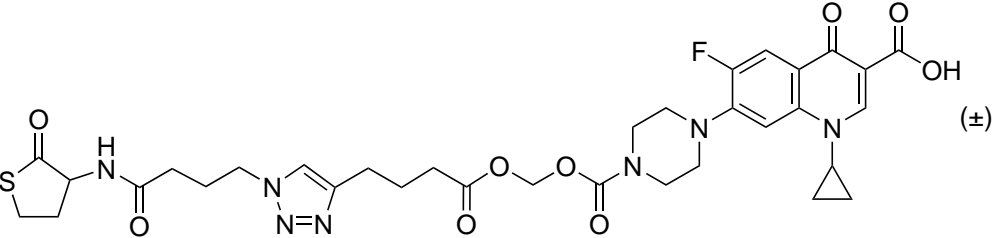


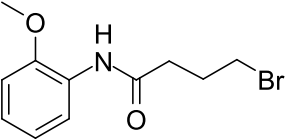


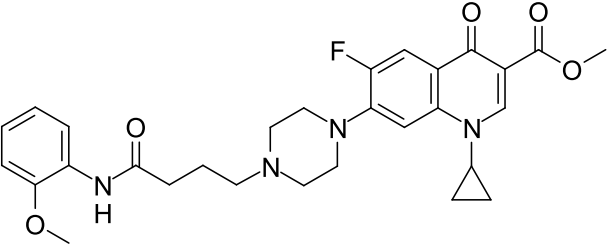


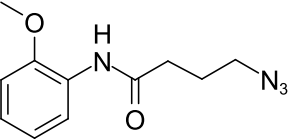


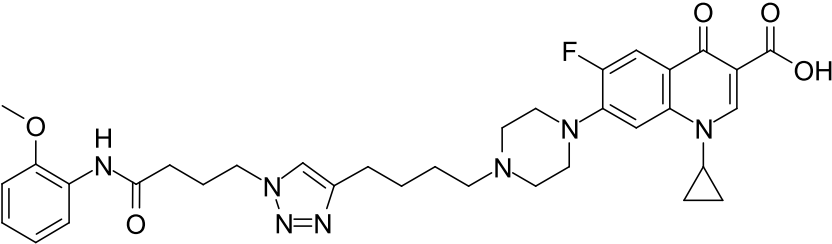




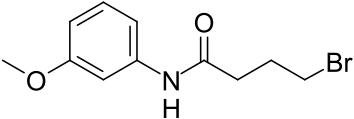


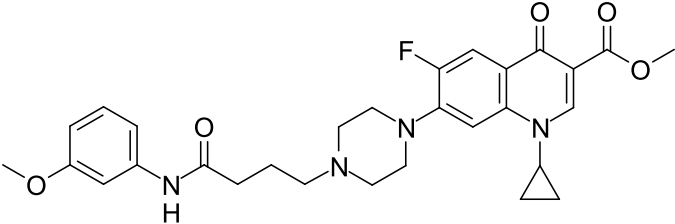


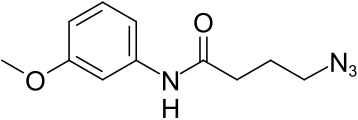


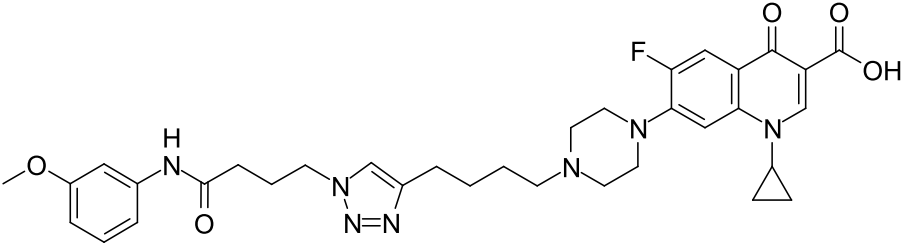


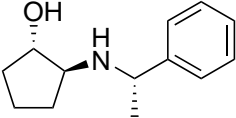




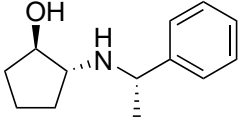








**170**



**171**

