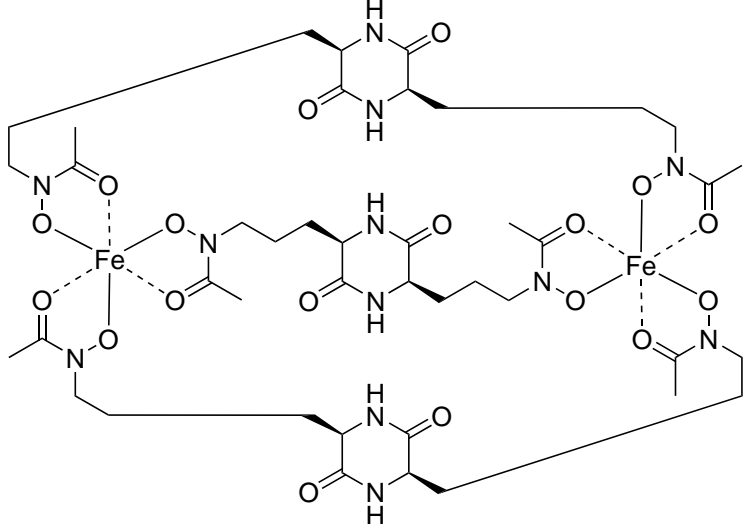
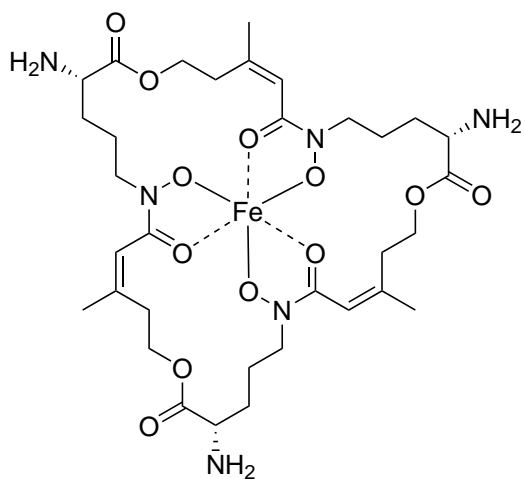


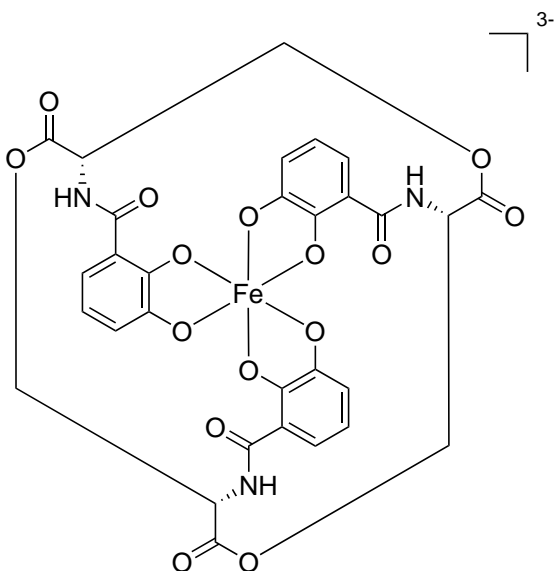
Deferoxamine B
1



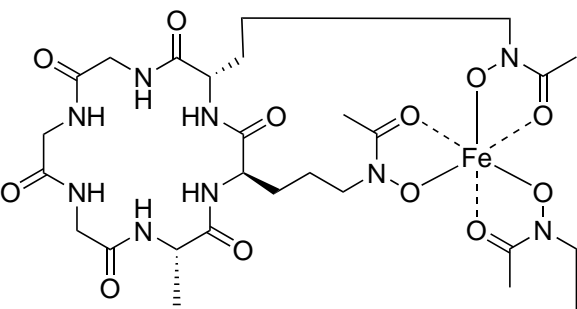
Rhodotorulic acid
2



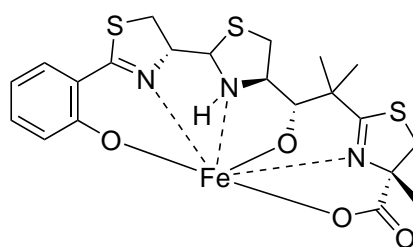
Fusarinine C
3



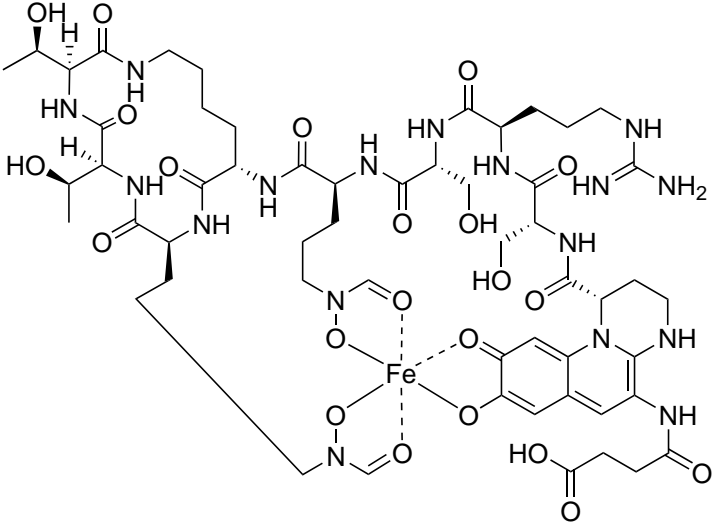
Enterobactin
4



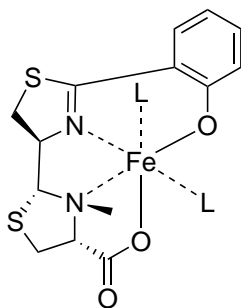
Ferrichrome
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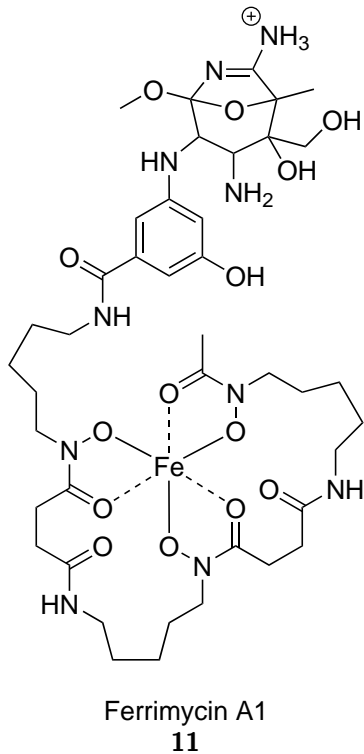
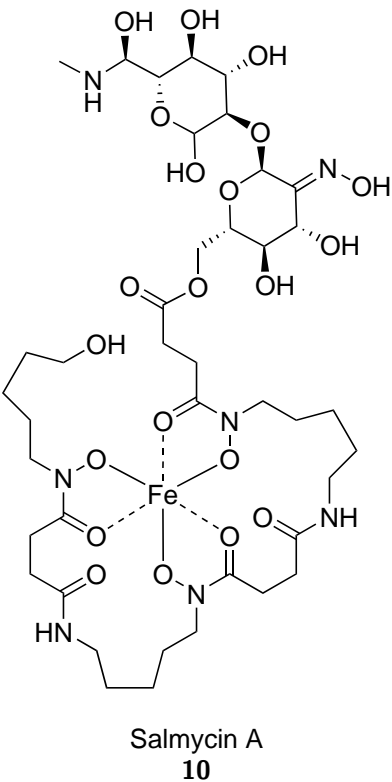
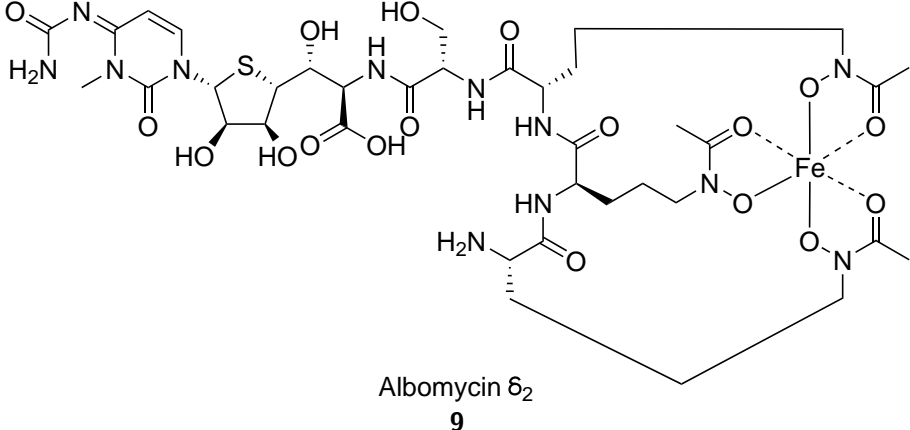
Yersiniabactin
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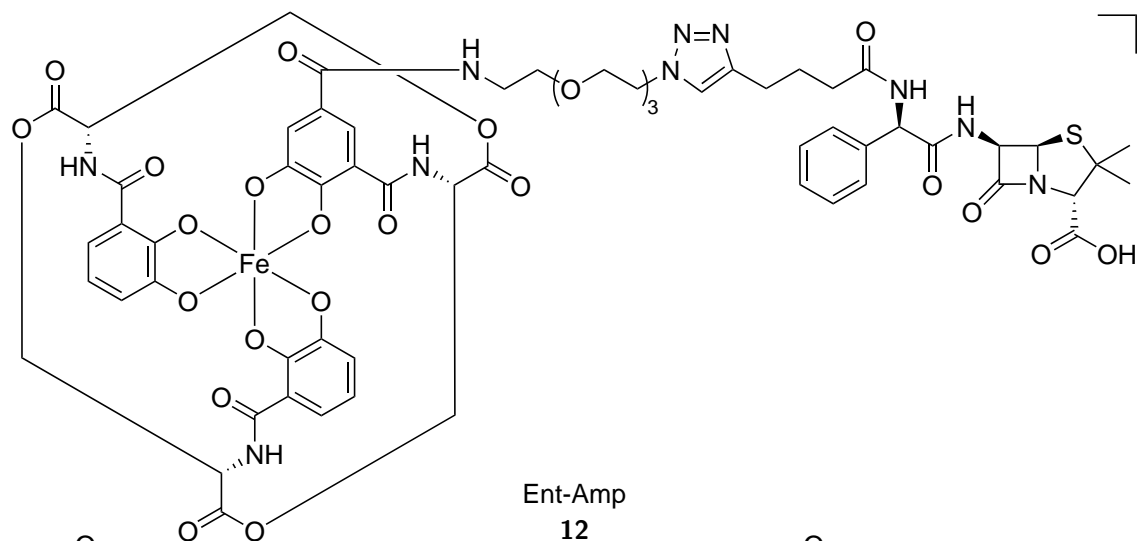


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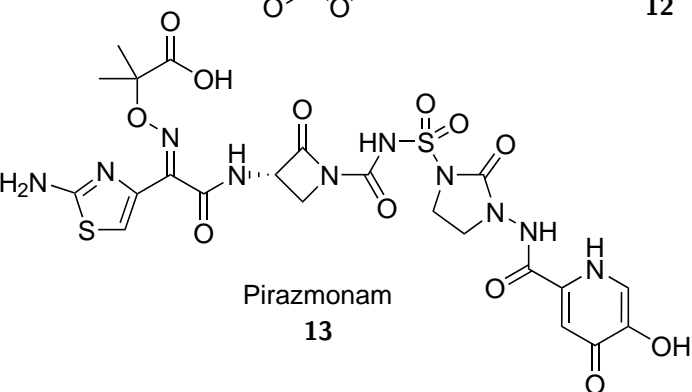


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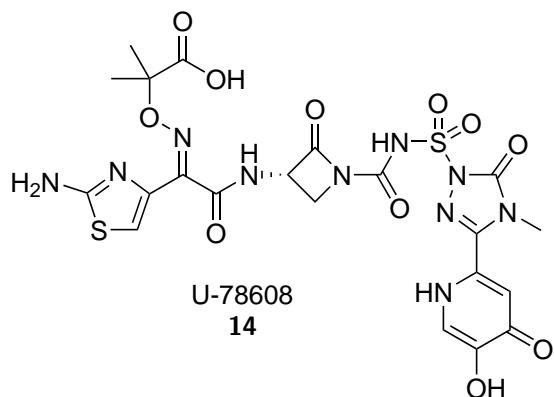




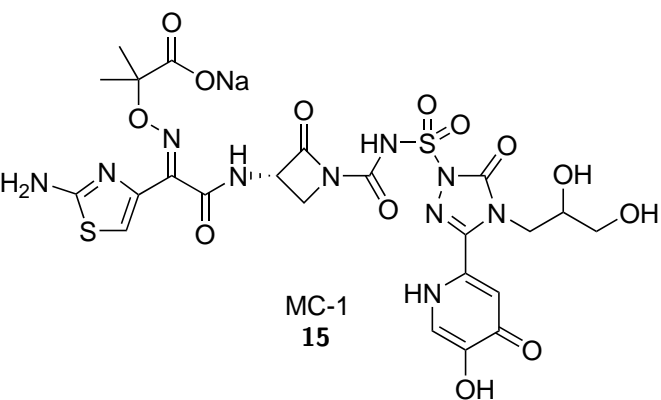
Ent-Amp
12



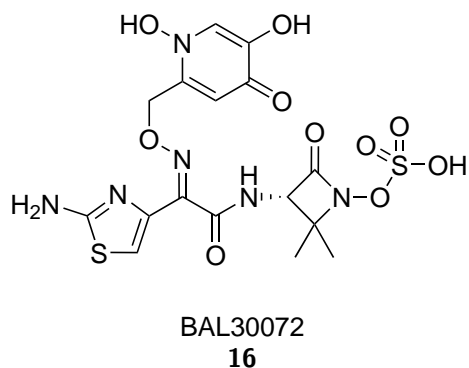
Pirazmonam
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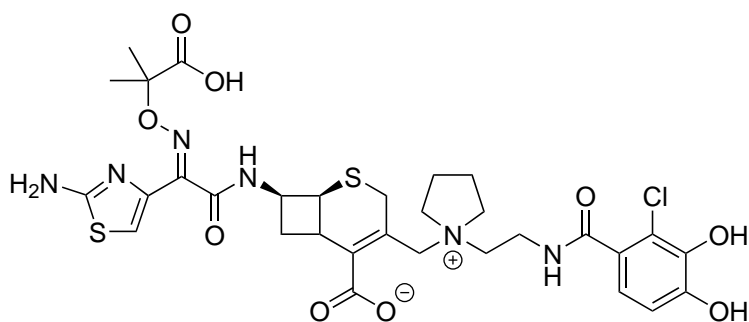
U-78608
14



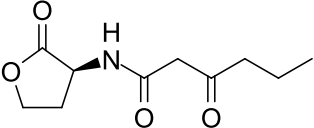
MC-1
15

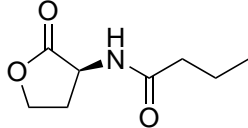


BAL30072
16

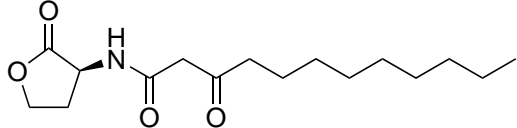


Cefiderocol
17

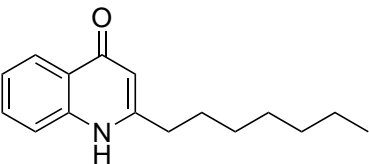




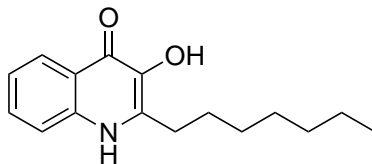
C₄-HSL
19



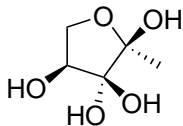
3-oxo-C₁₂-HSL
20



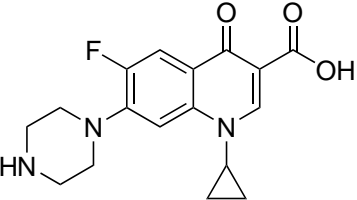
HHQ
21



PQS
22

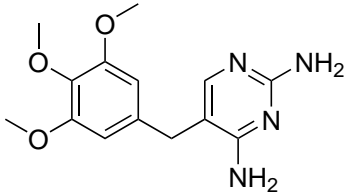


Al-2
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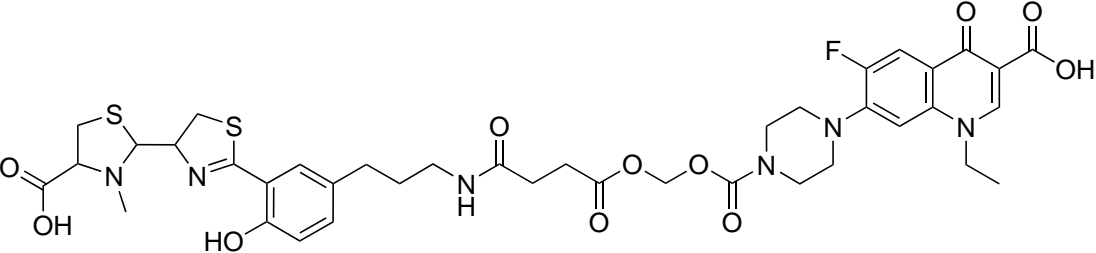
Ciprofloxacin

24

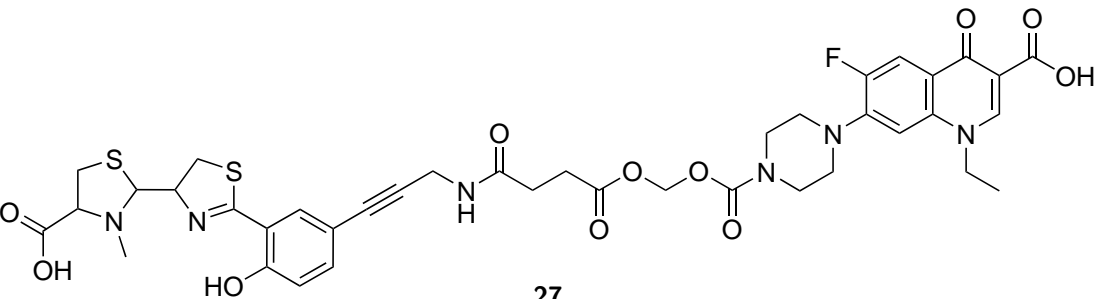


Trimethoprim

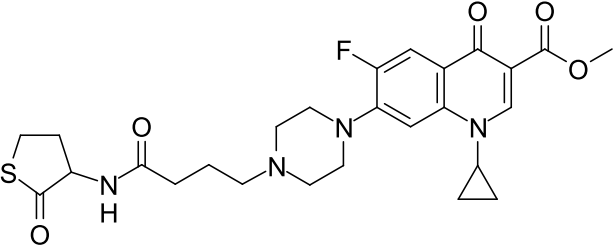
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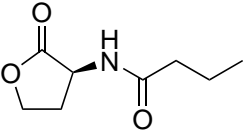


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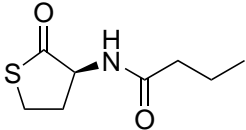
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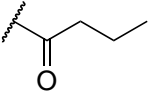
C₄-HSL

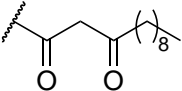
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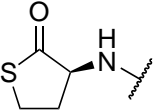


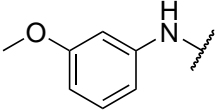
C₄-HCTL

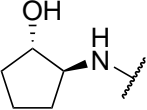
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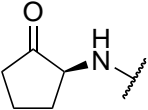


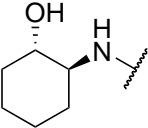


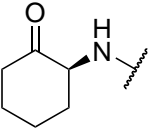


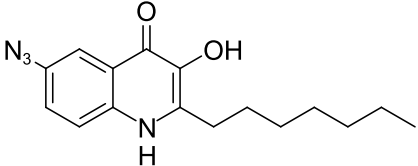
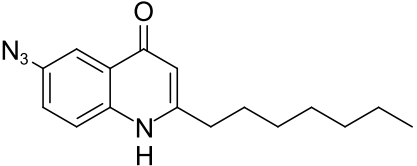


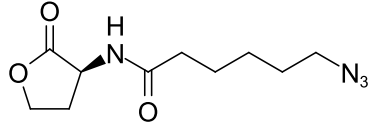
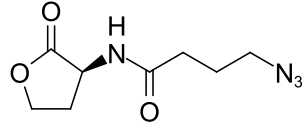
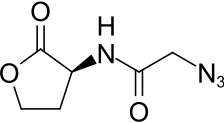


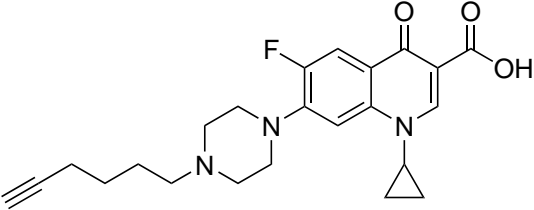




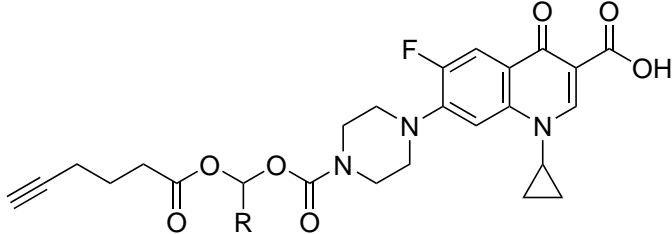






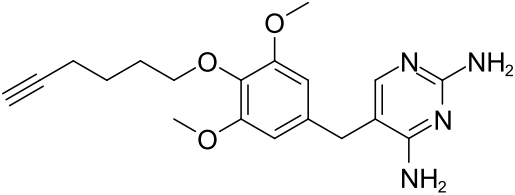


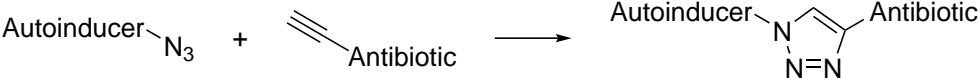
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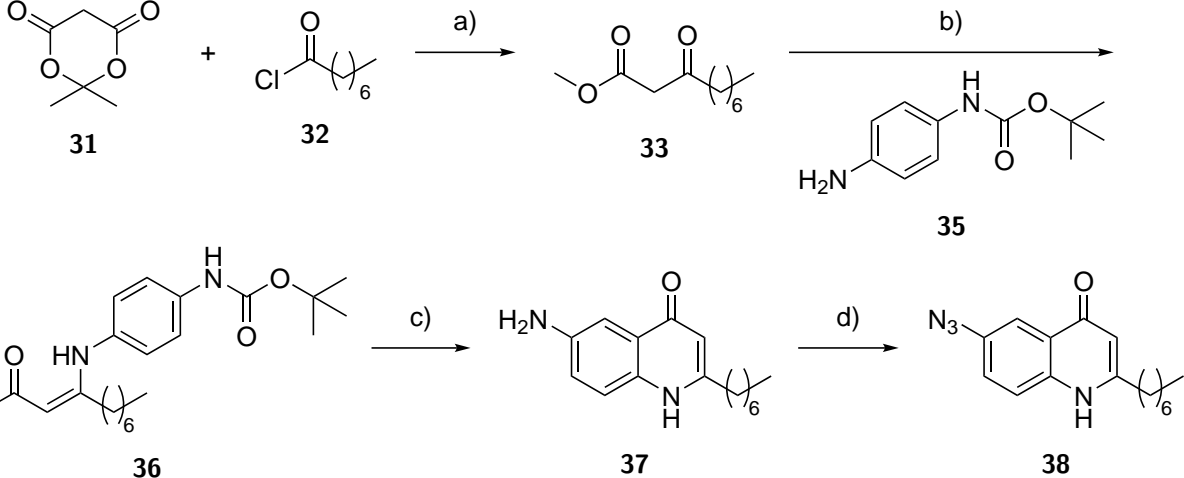


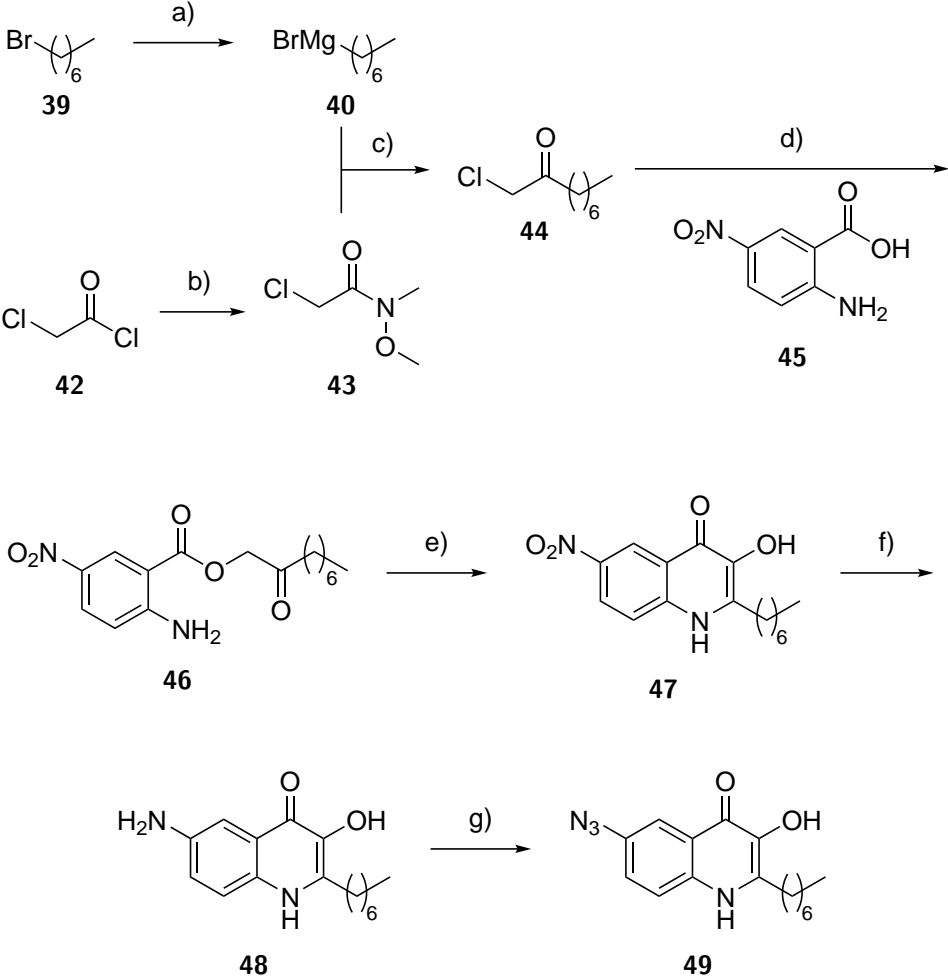
R = H 90

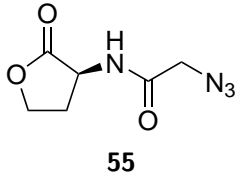
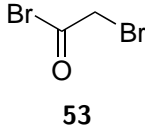
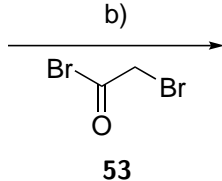
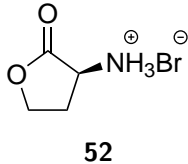
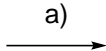
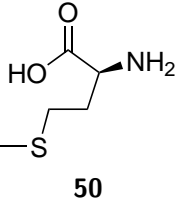
R = Me 91

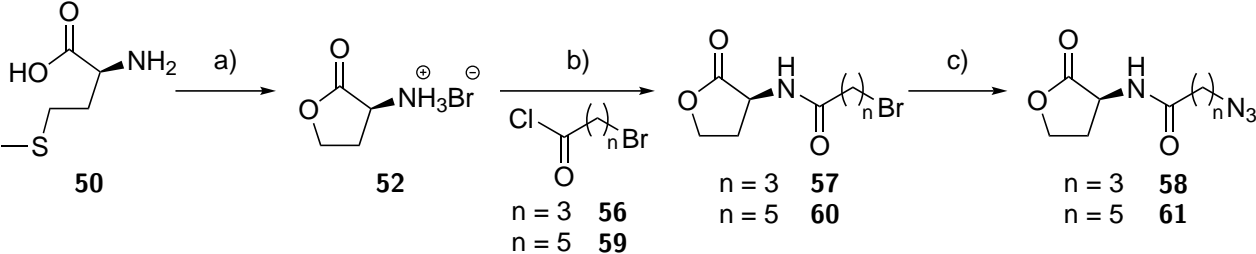


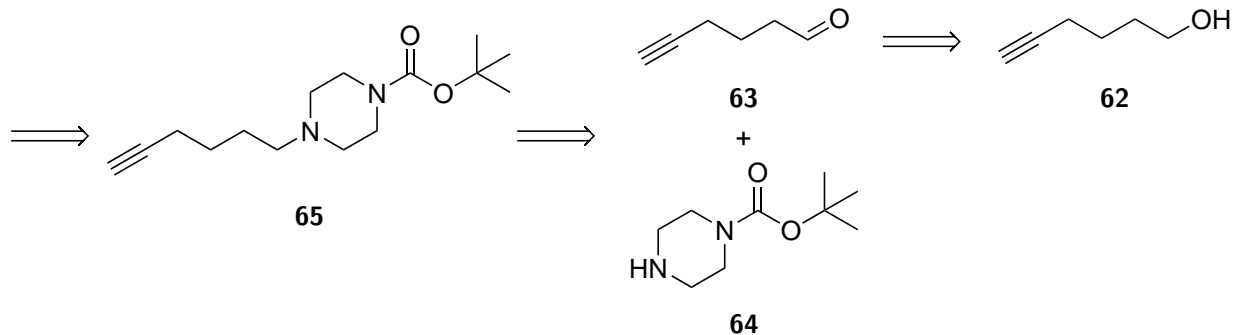
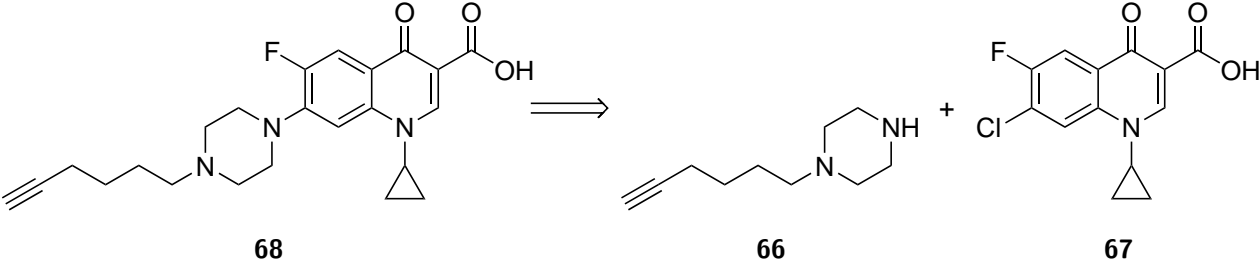


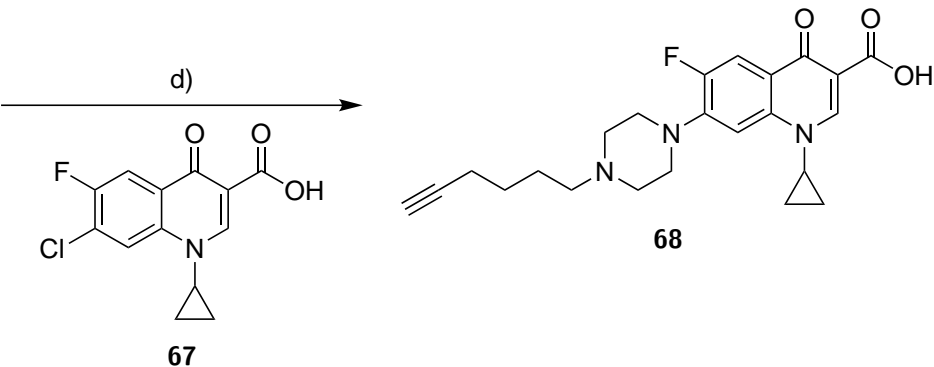
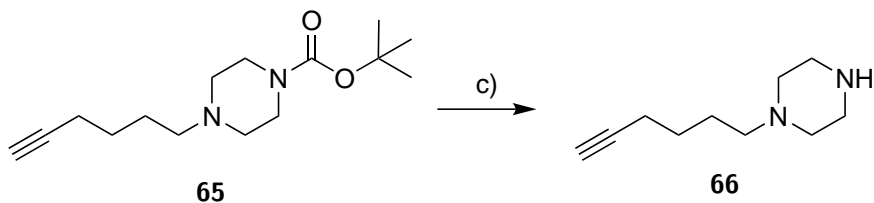
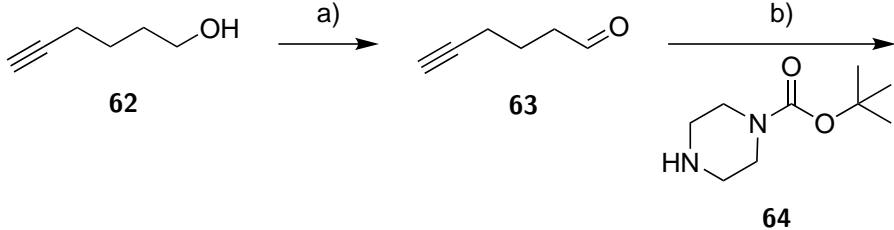


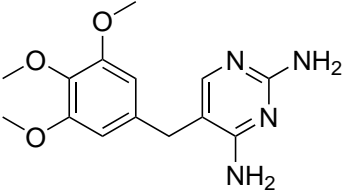




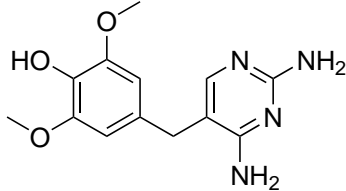
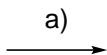




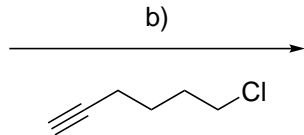




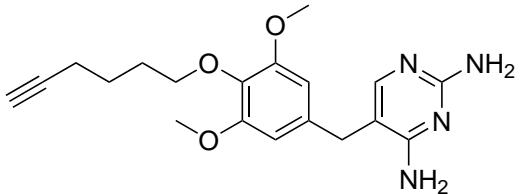
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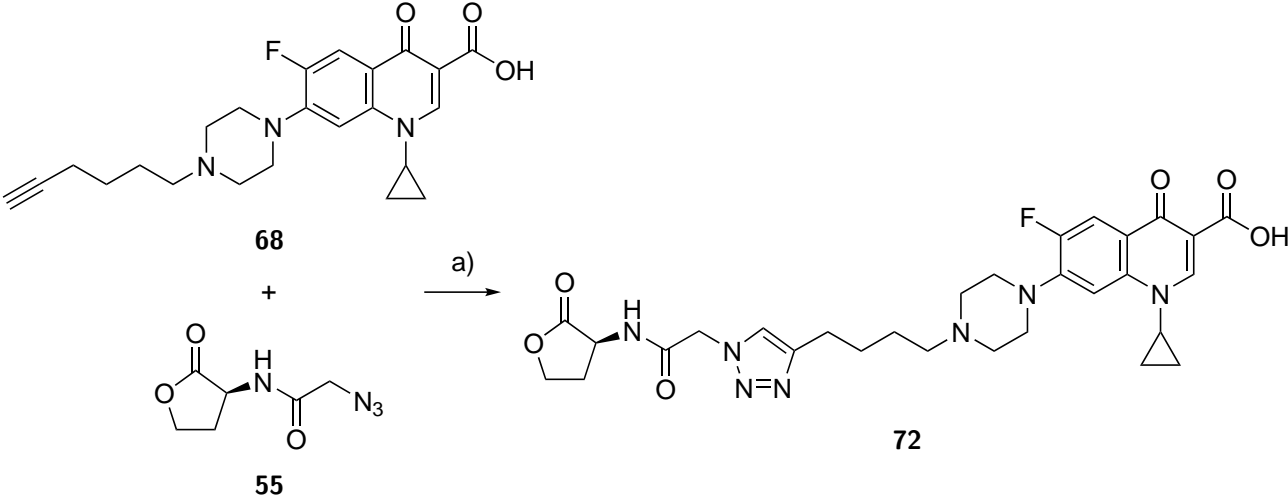
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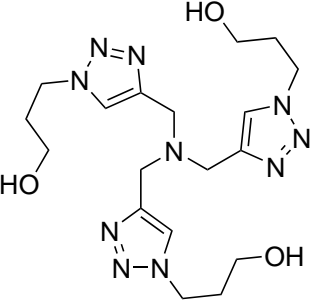


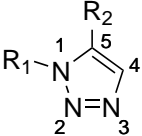
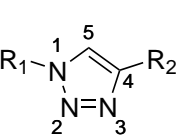
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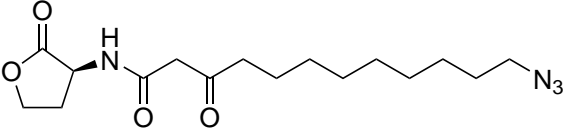


71

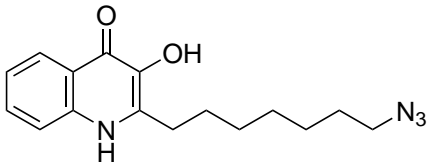




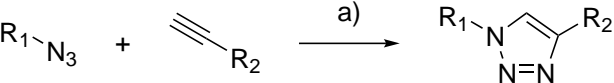


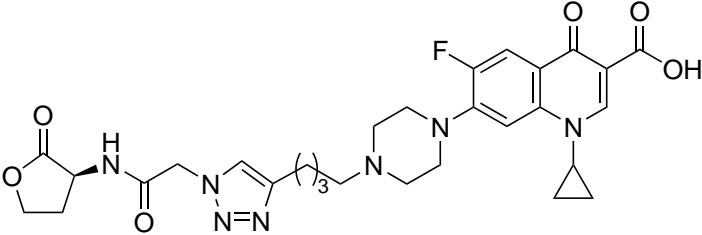


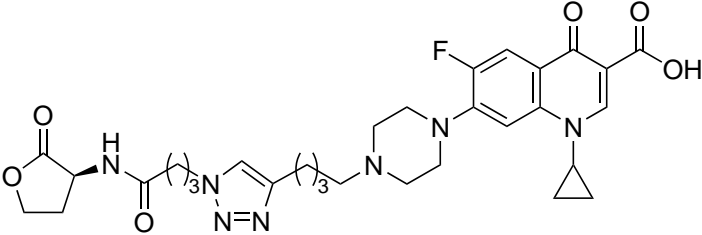
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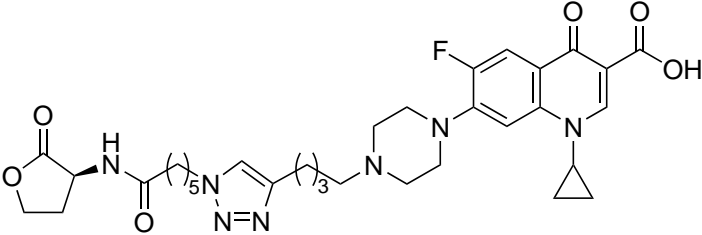


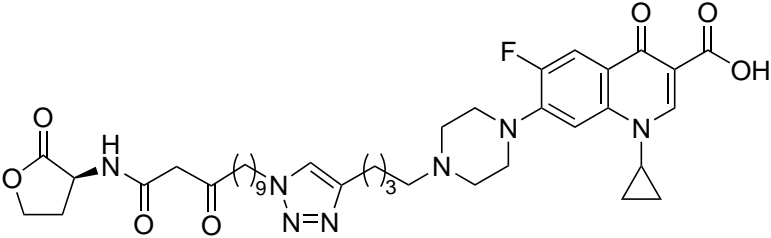
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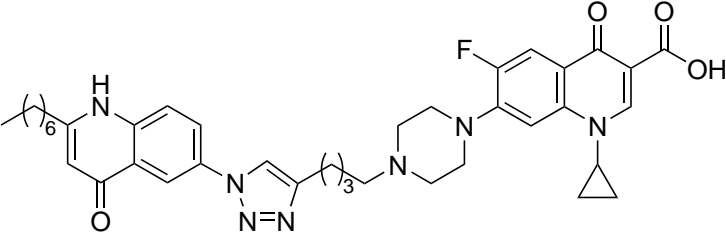


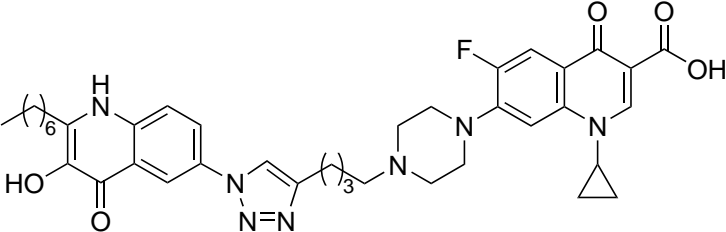


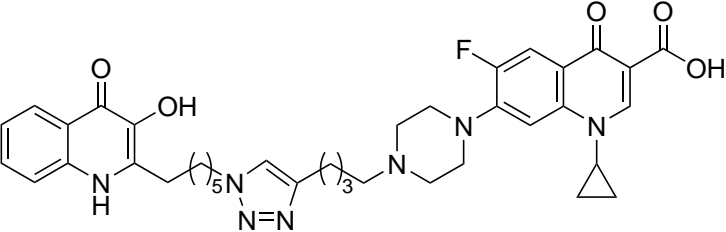


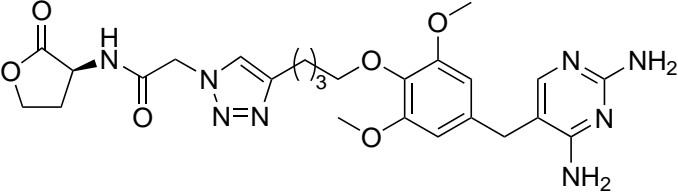


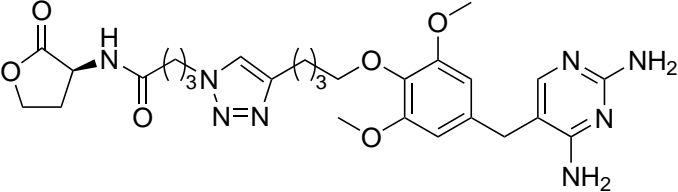


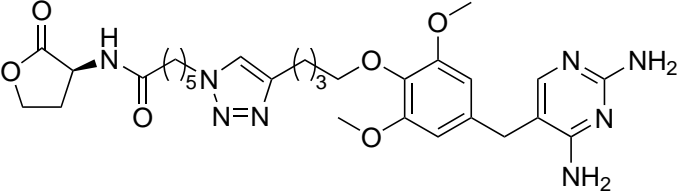


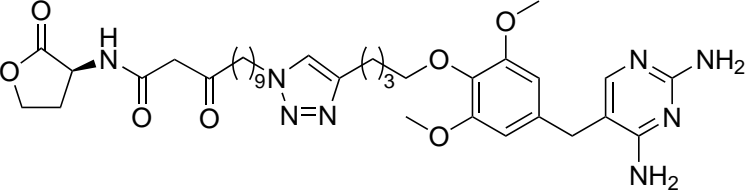


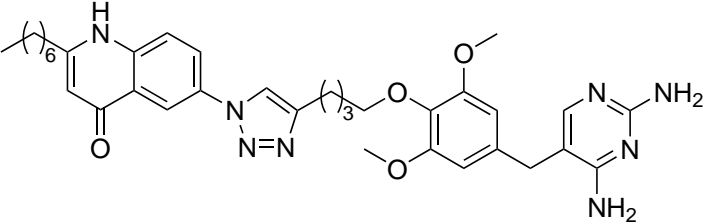


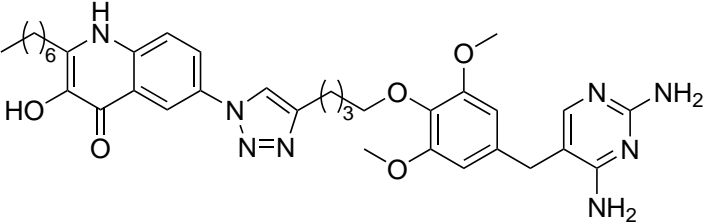


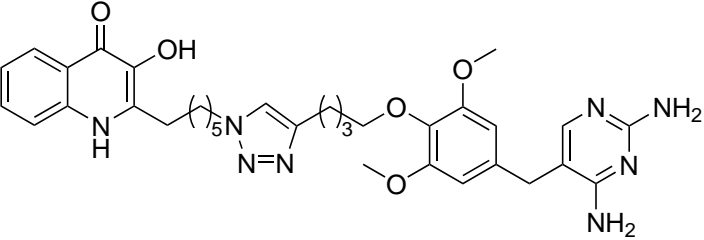


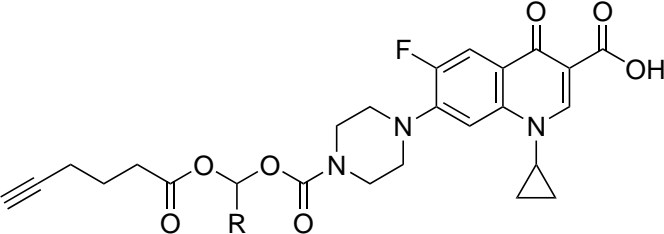






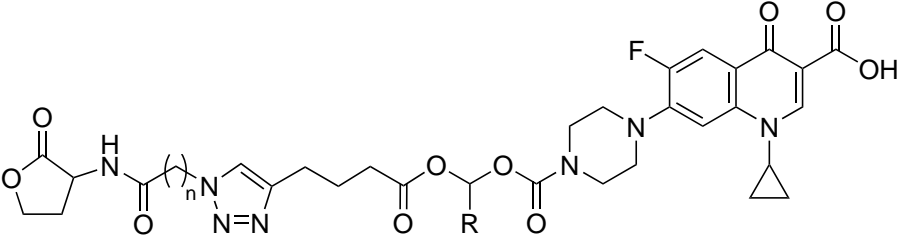






$R = H$ **90**

$R = Me$ **91**



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

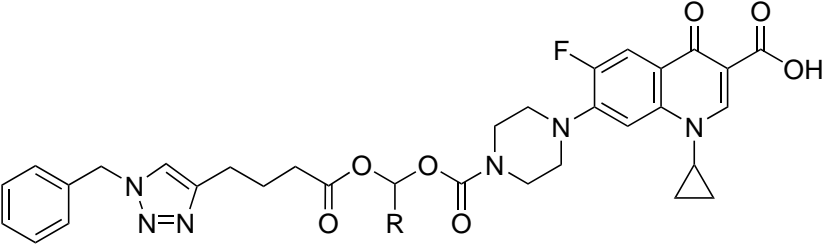
$n = 3, \text{ R} = \text{H}$ **93**

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

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

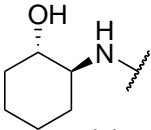
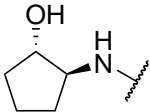
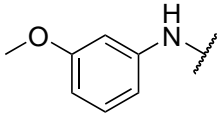
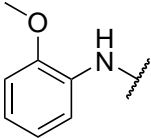
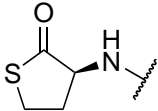
$n = 3, \text{ R} = \text{Me}$ **96**

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

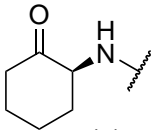


$\text{R} = \text{H}$ **98**

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

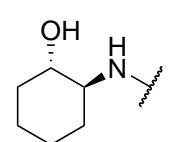
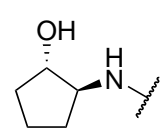
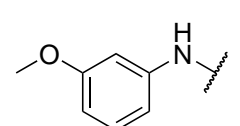
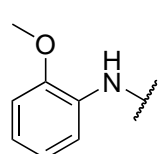
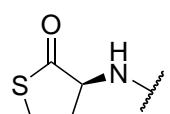
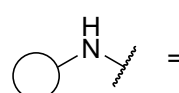
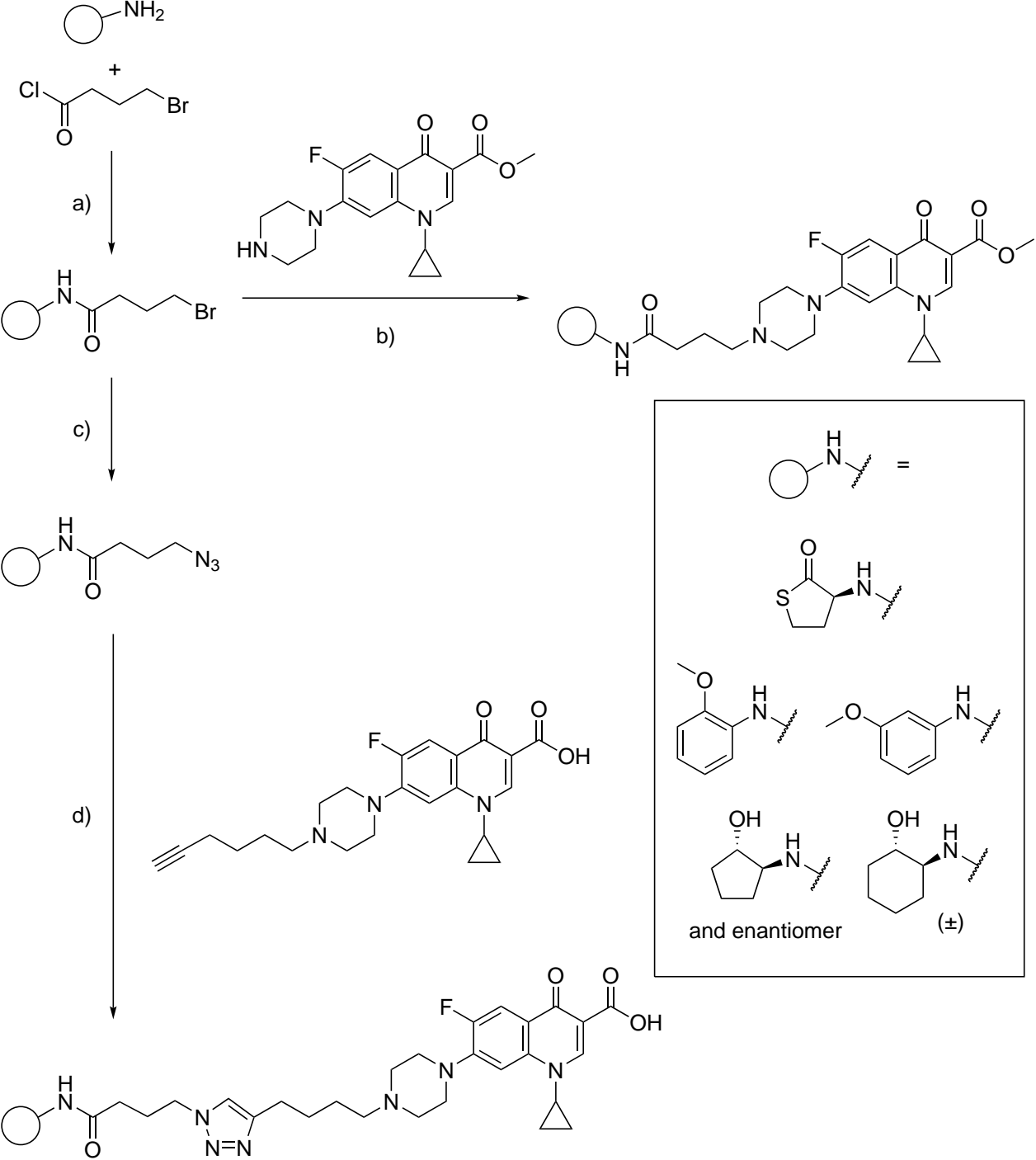


(±)



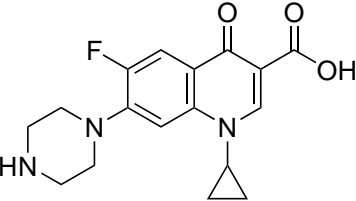
(±)

and enantiomer

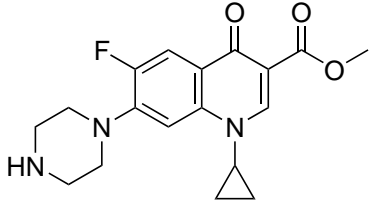
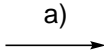


and enantiomer

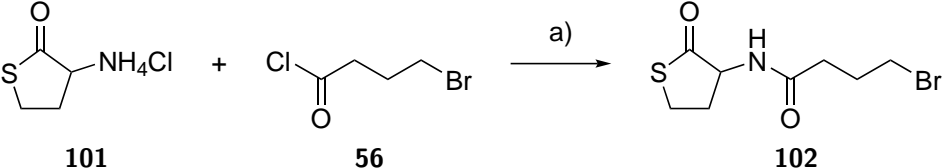
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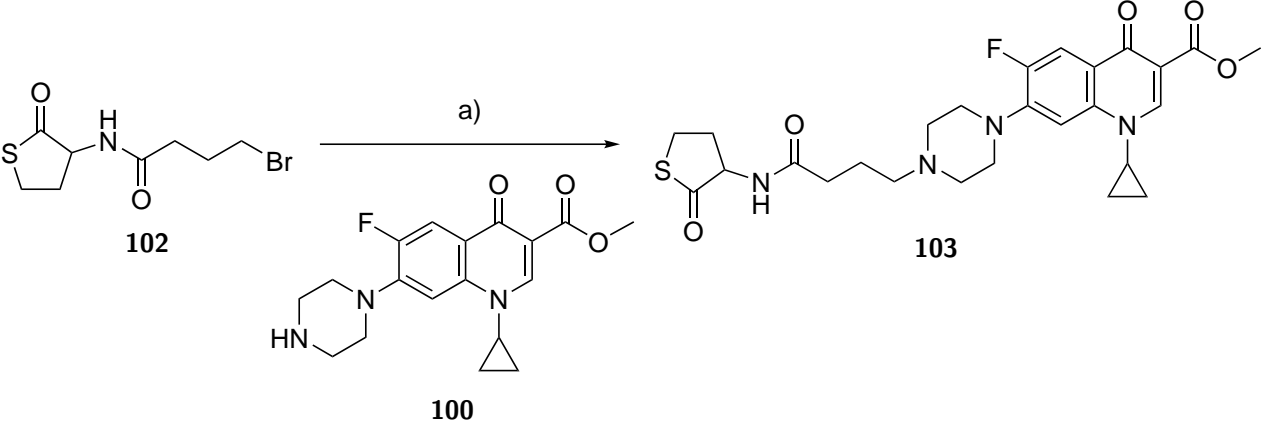


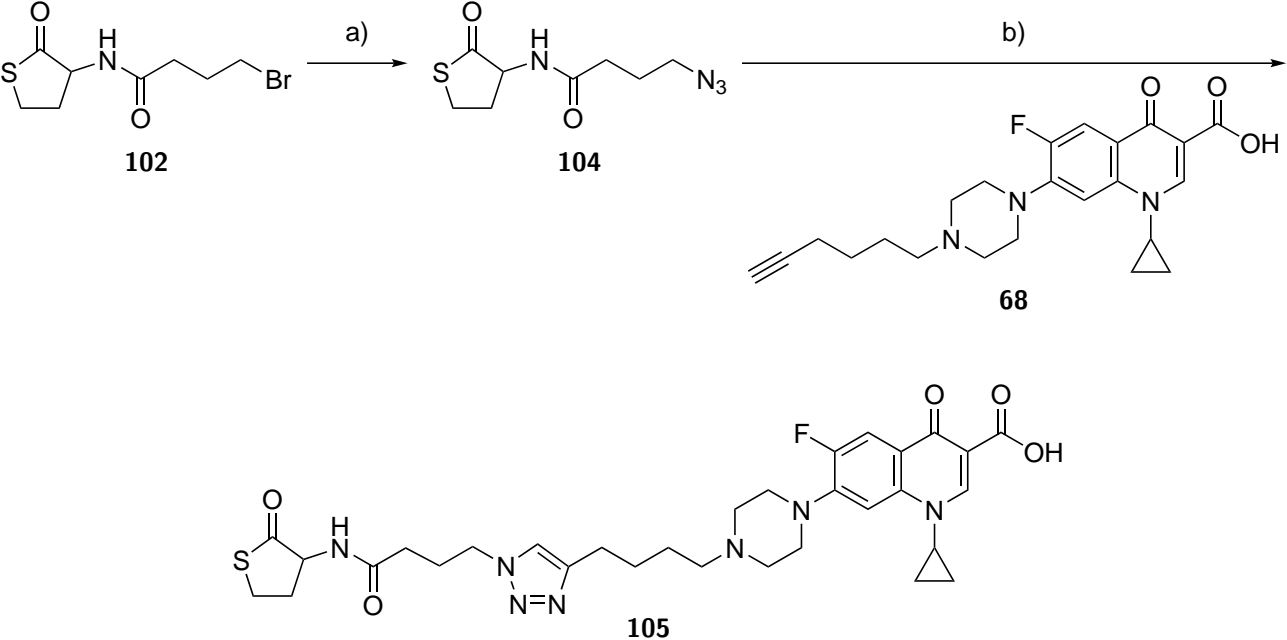
24

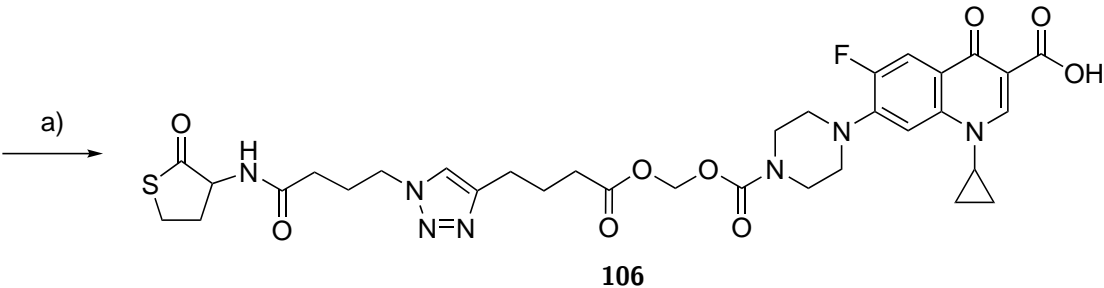
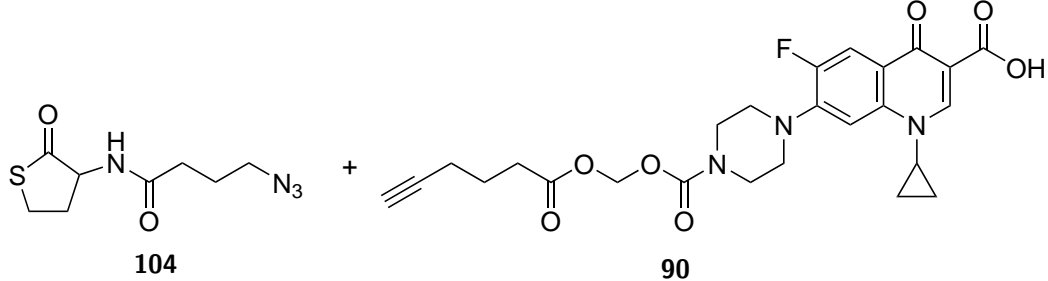


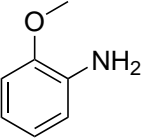
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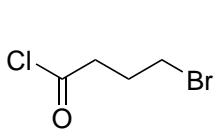






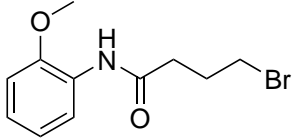
107

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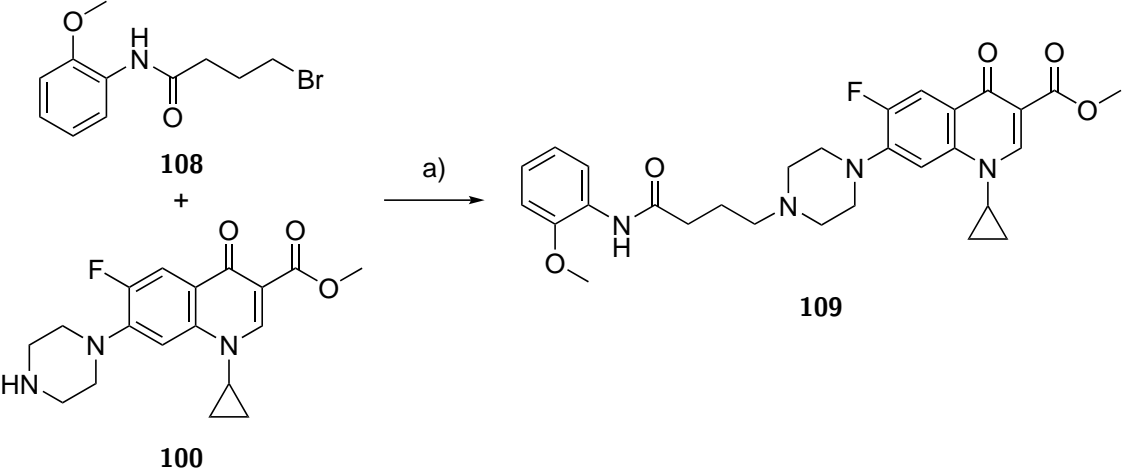


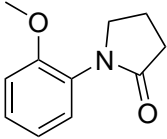
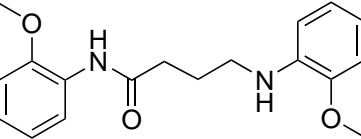
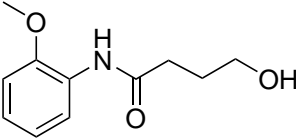
56

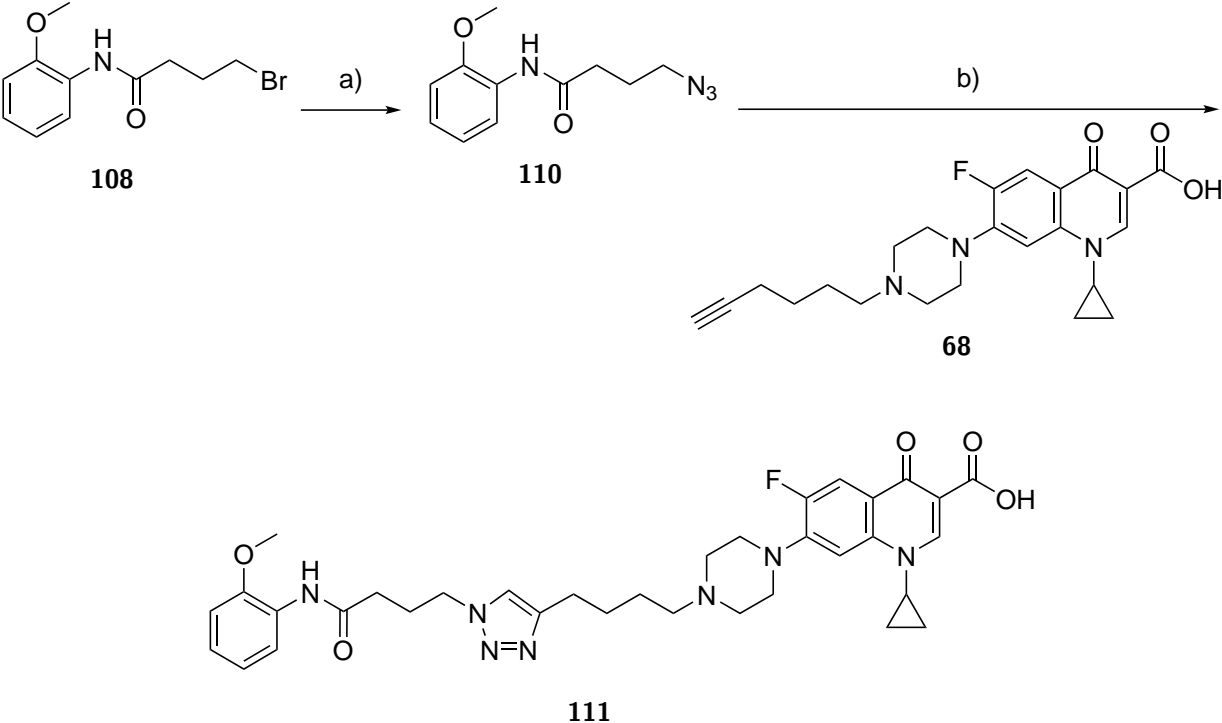
a)

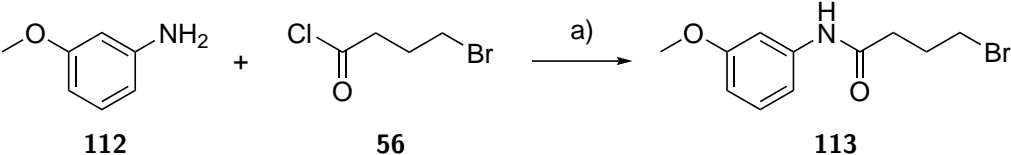


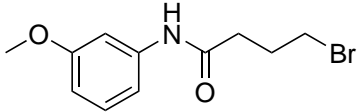
108





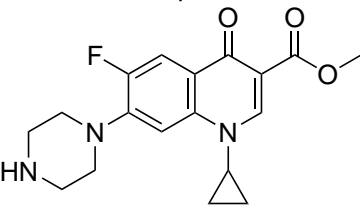




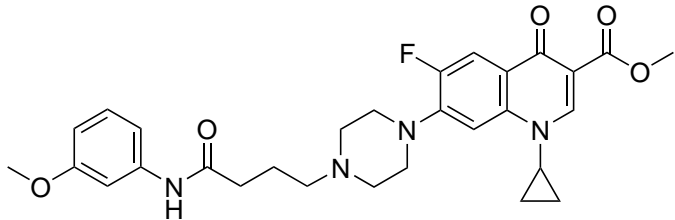
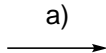


113

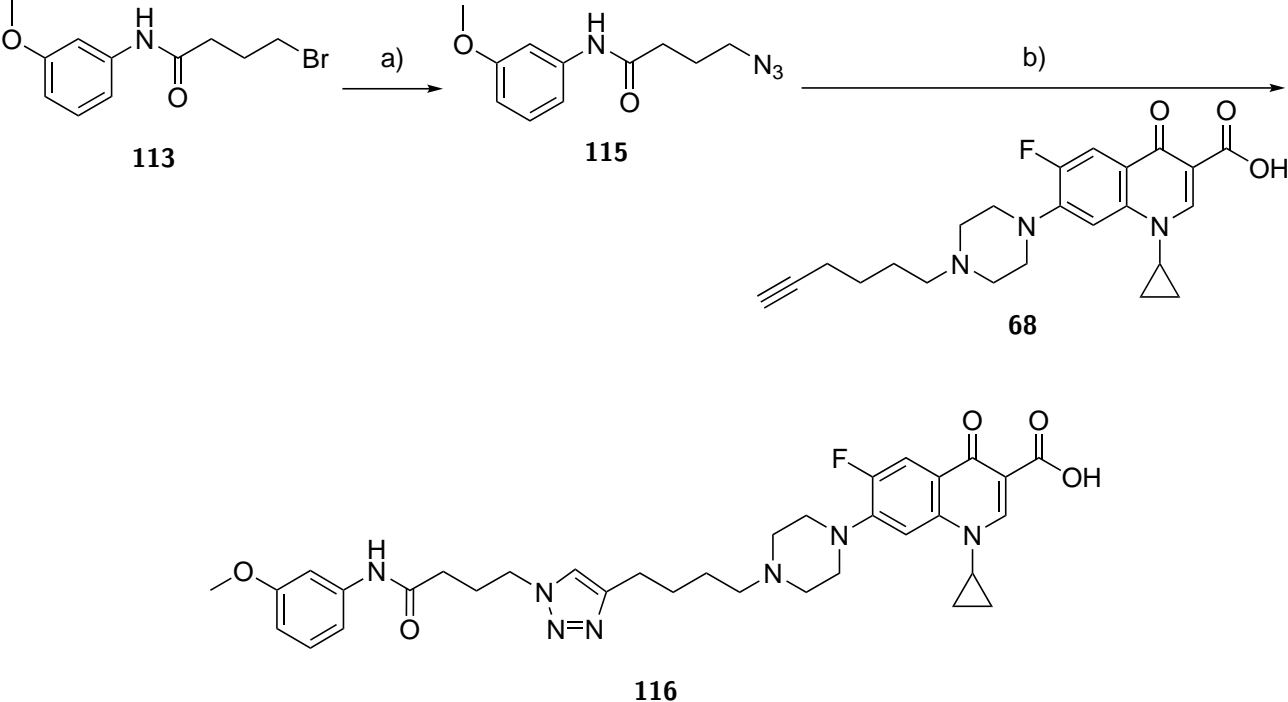
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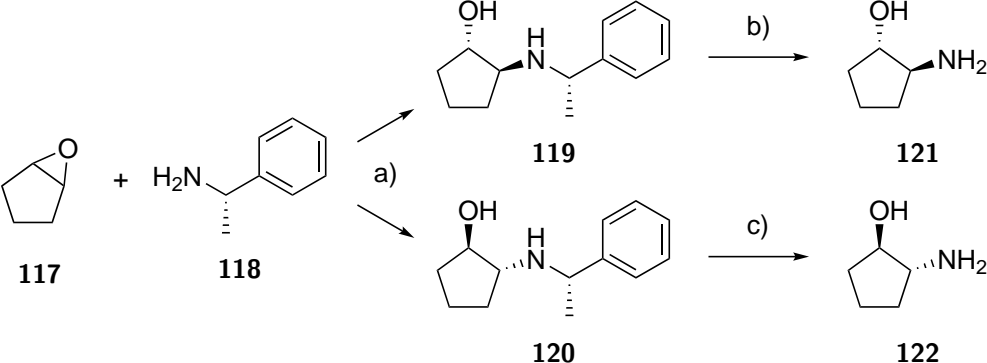


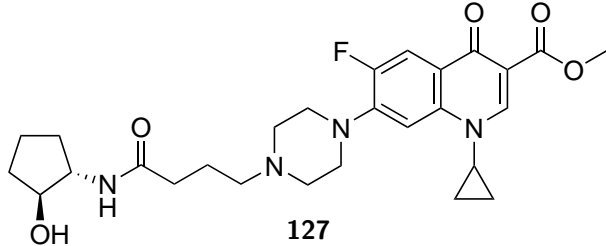
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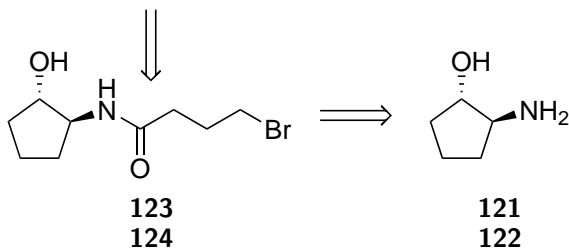
114





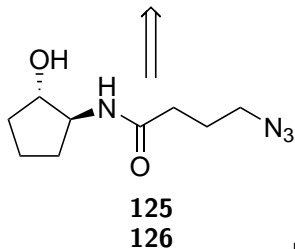


127
128

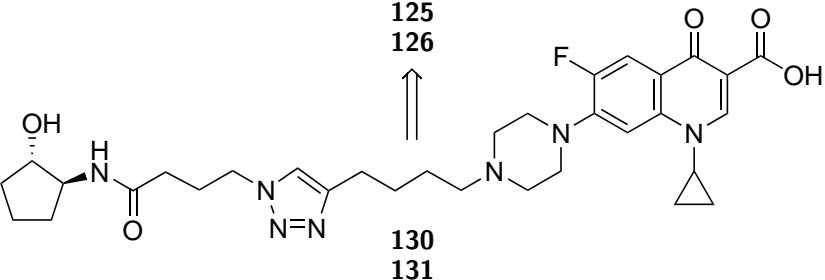


123
124

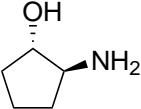
121
122



125
126

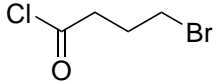


130
131

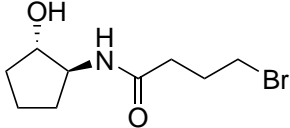
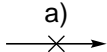


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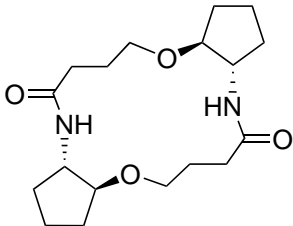
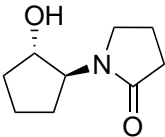
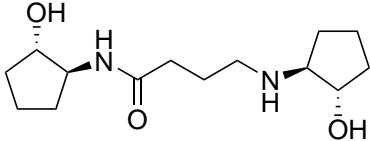
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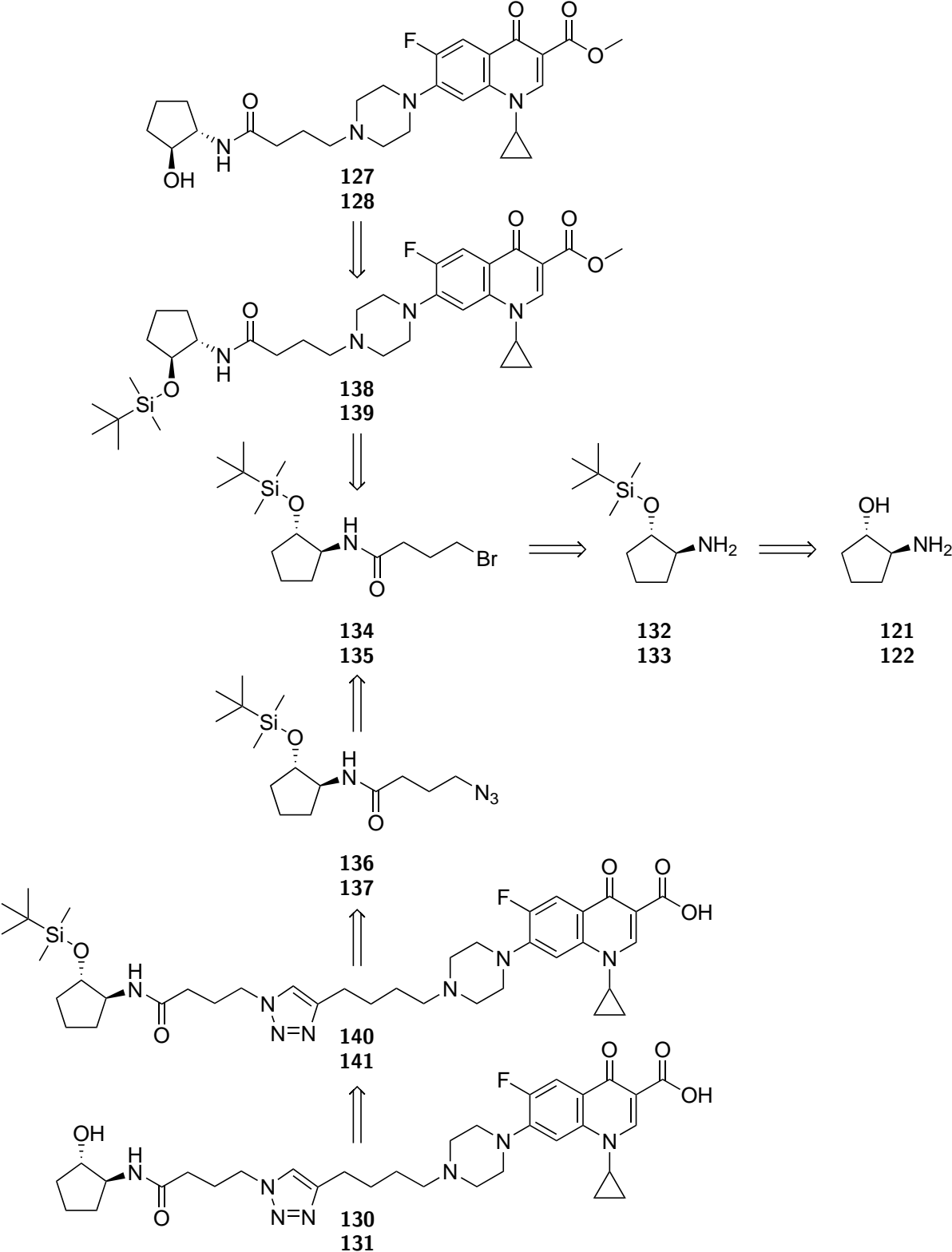


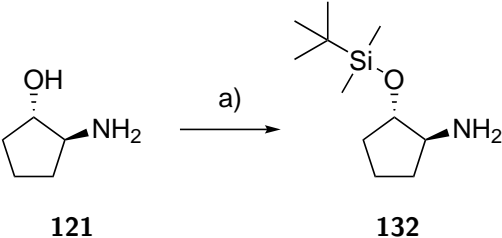
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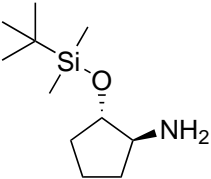


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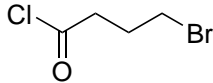




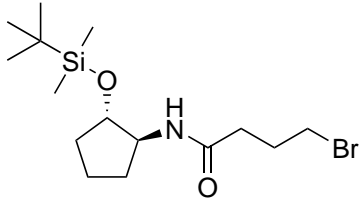
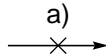


132

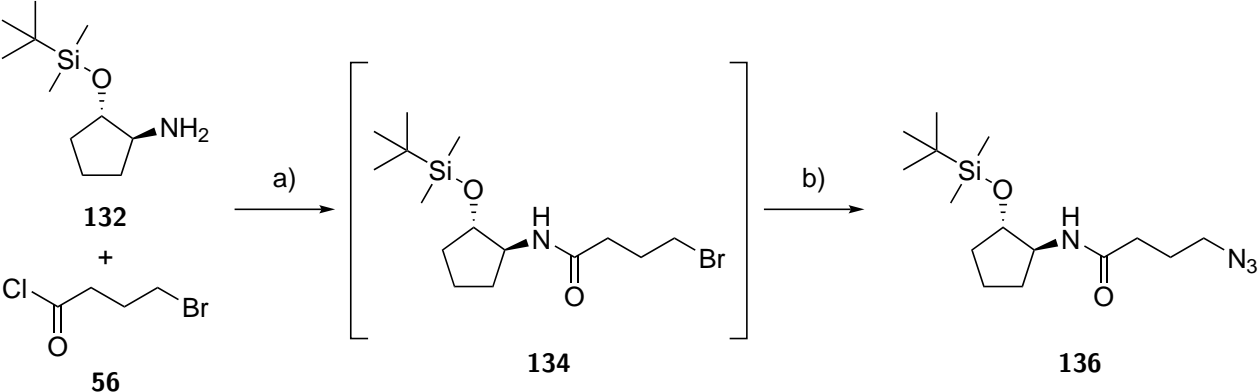
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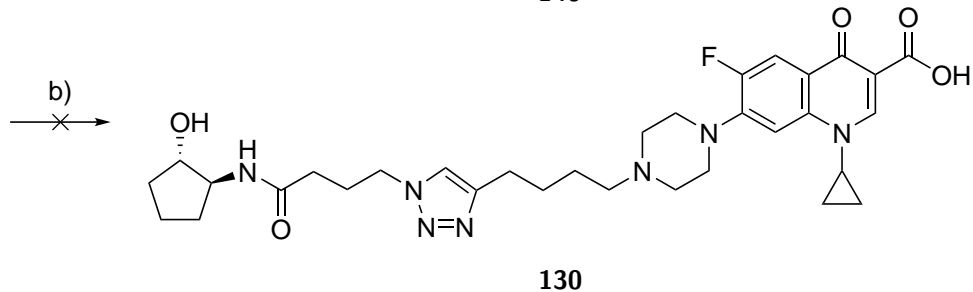
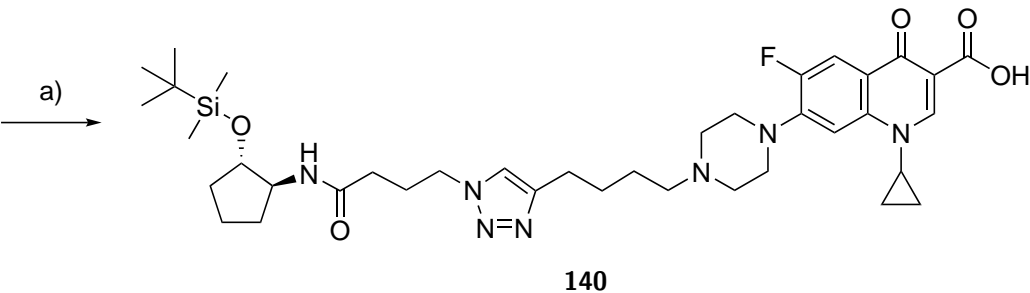
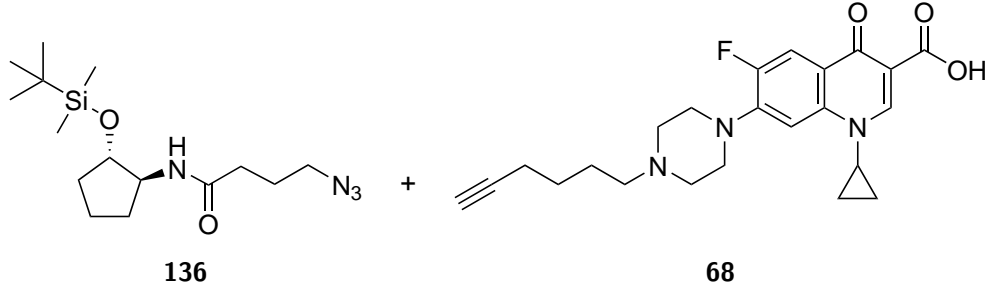


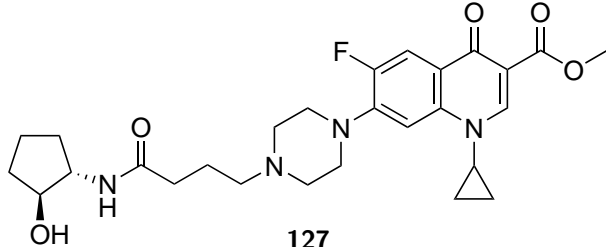
56



134

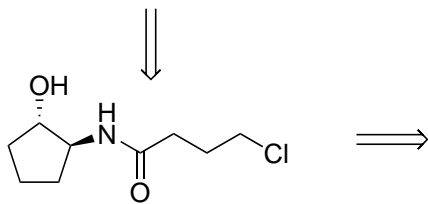






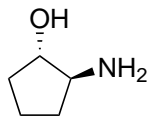
127

128



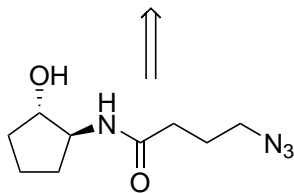
143

144



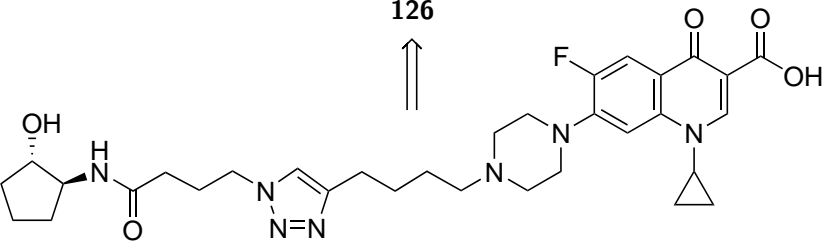
121

122



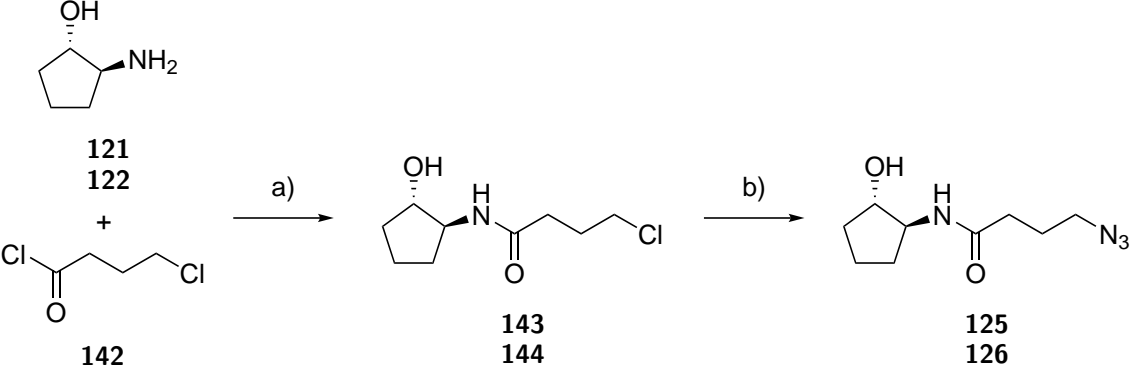
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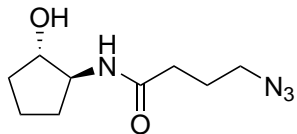
126



130

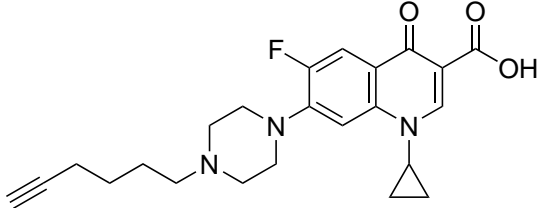
131





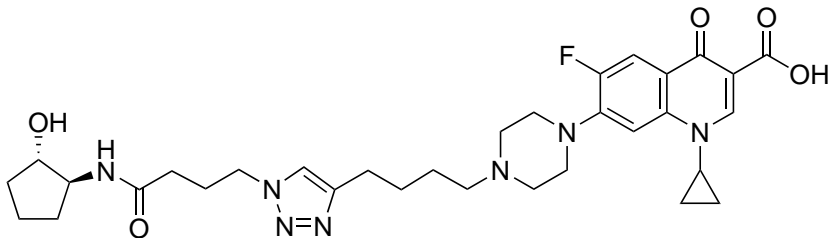
125
126

+

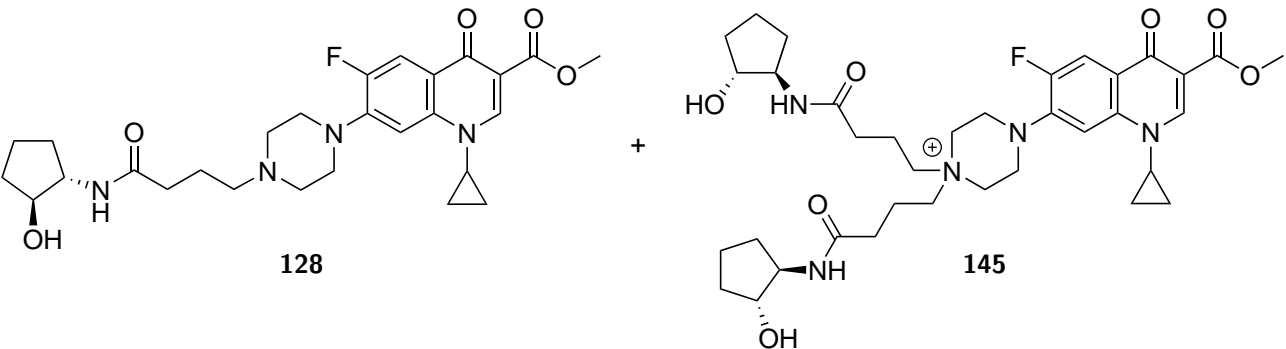
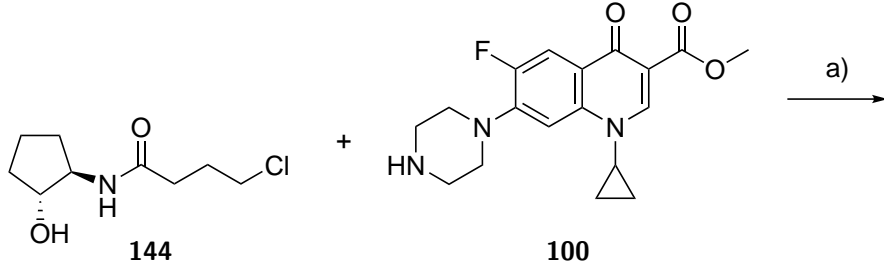


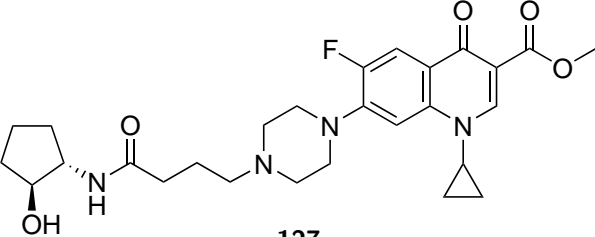
68

a) →

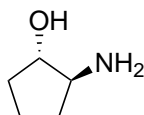


130
131



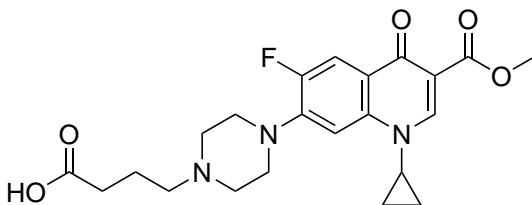


127
128

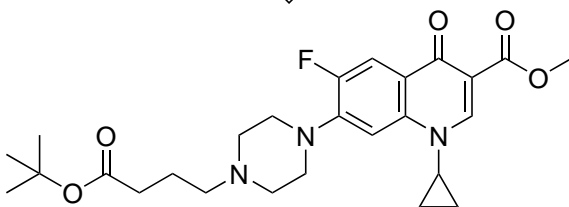


121
122

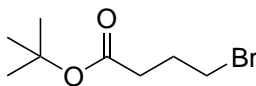
+



148

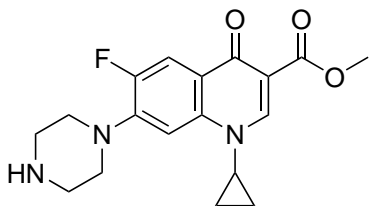


147

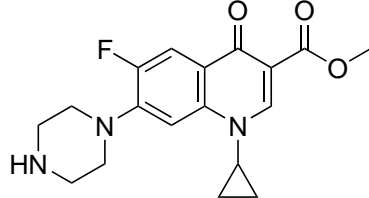


146

+

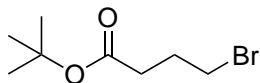


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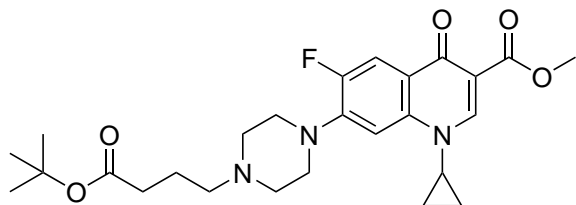
100

+



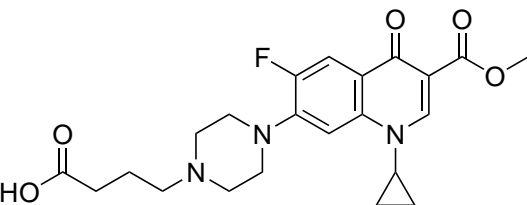
146

a)



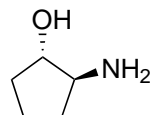
147

b)



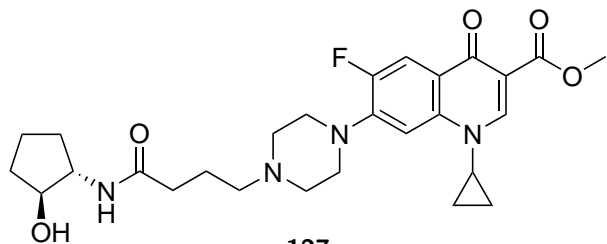
148

c)



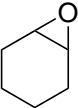
121

122

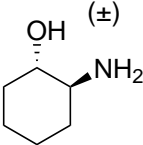
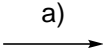


127

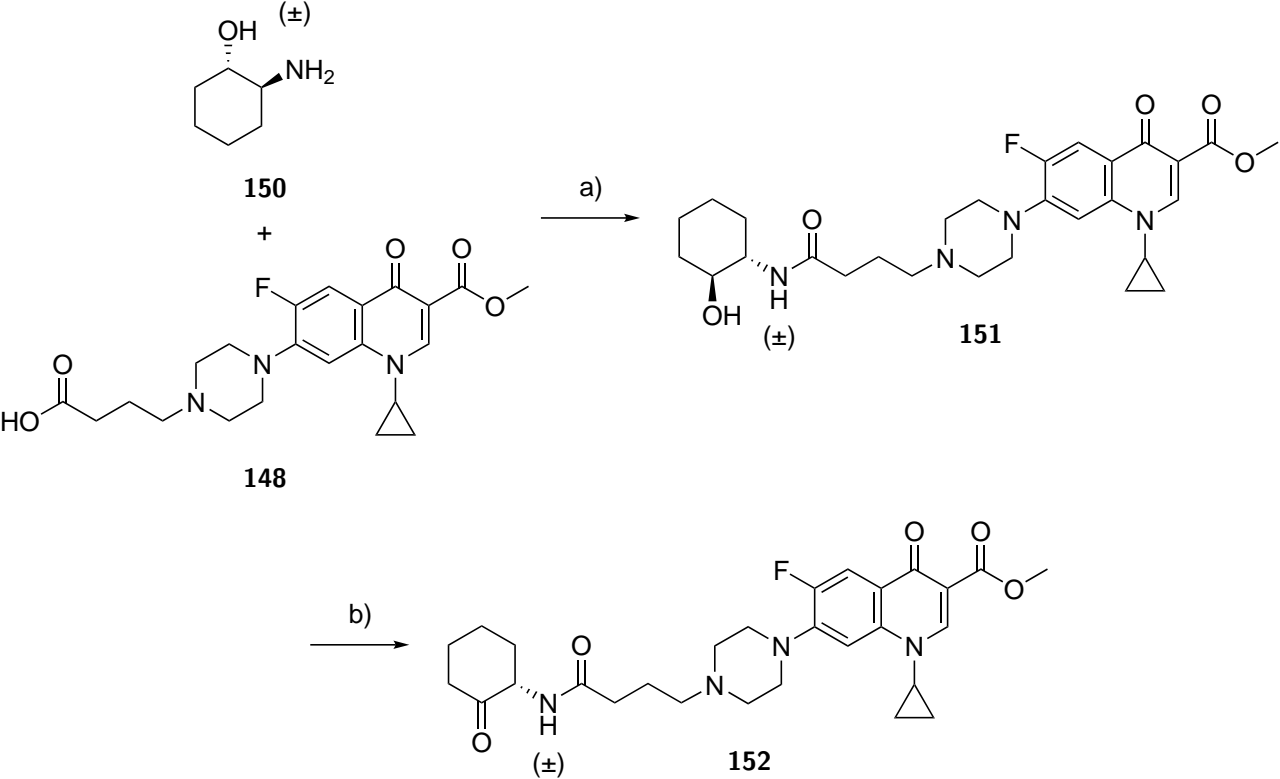
128

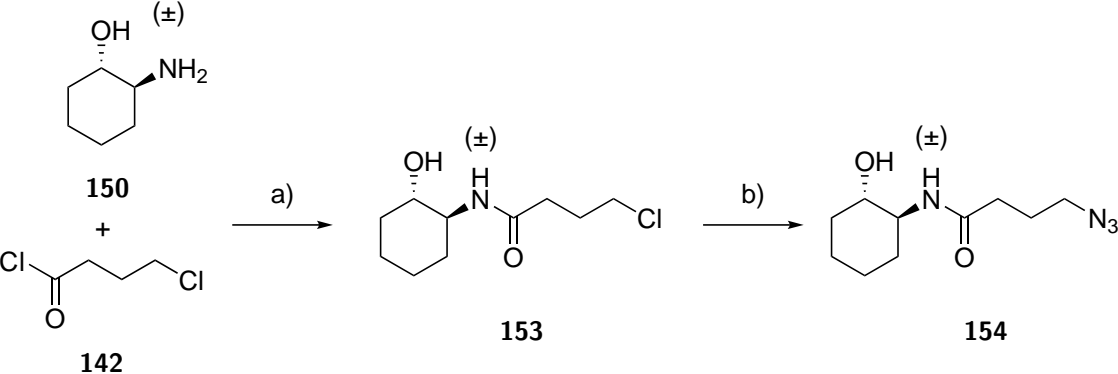


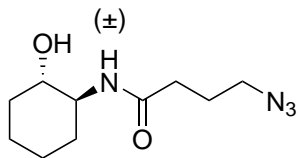
149



150

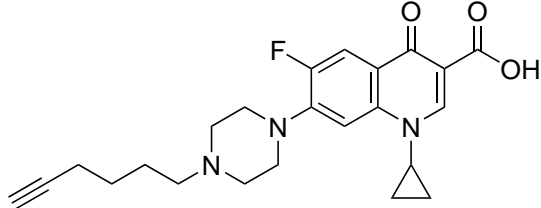






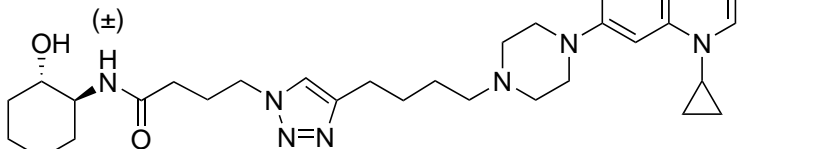
154

+



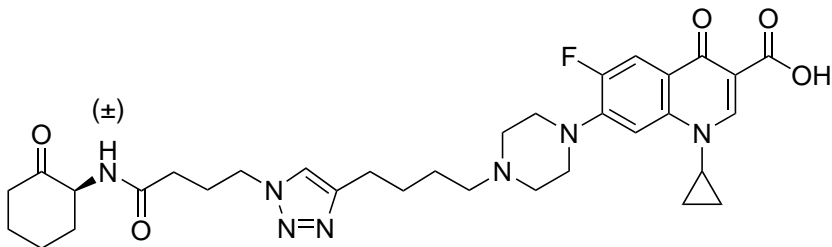
68

a)

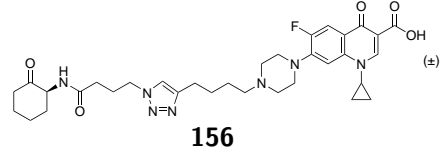
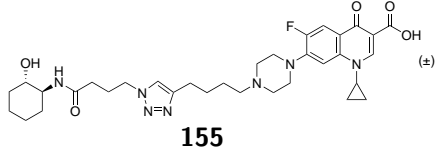
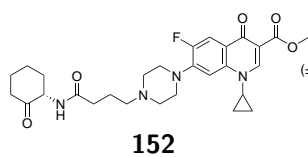
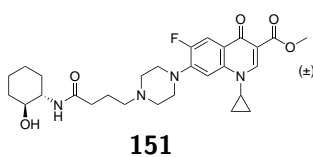
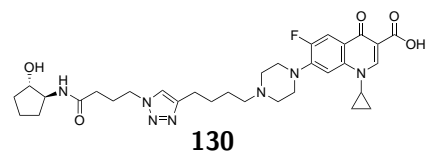
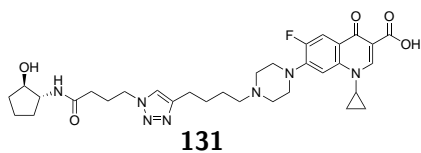
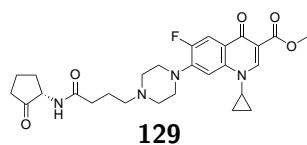
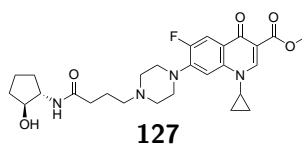
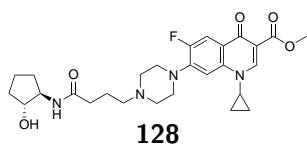
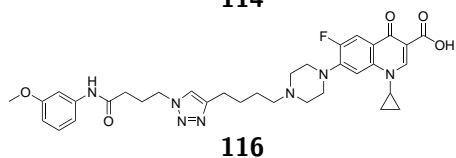
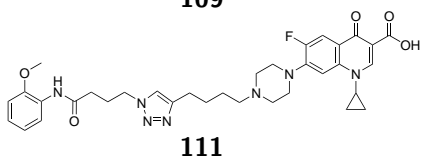
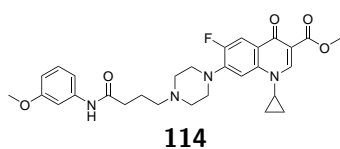
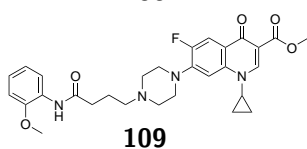
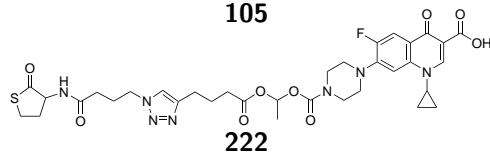
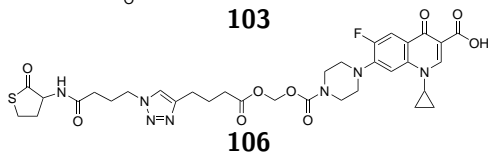
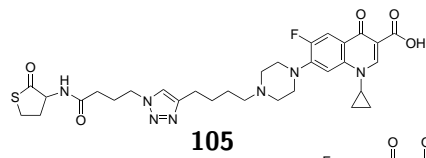
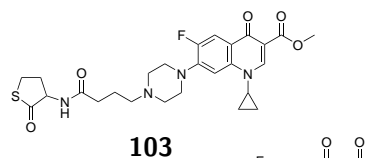
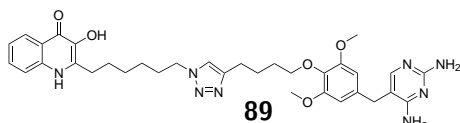
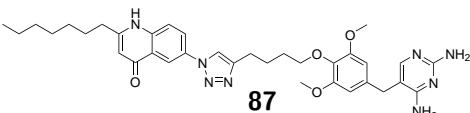
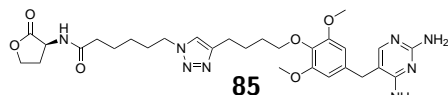
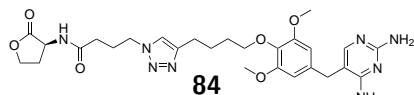
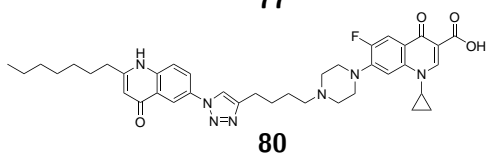
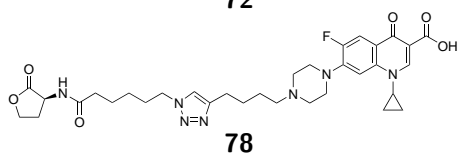
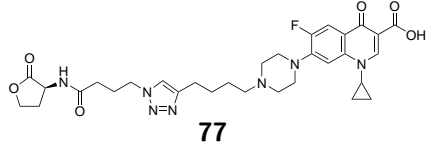
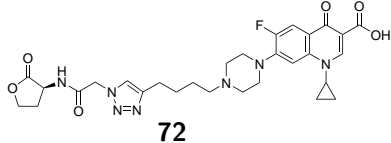


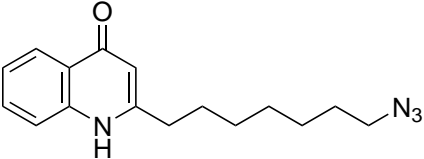
155

b)

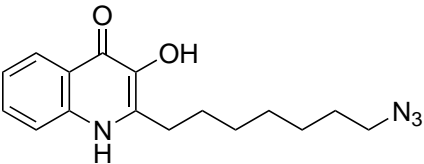


156

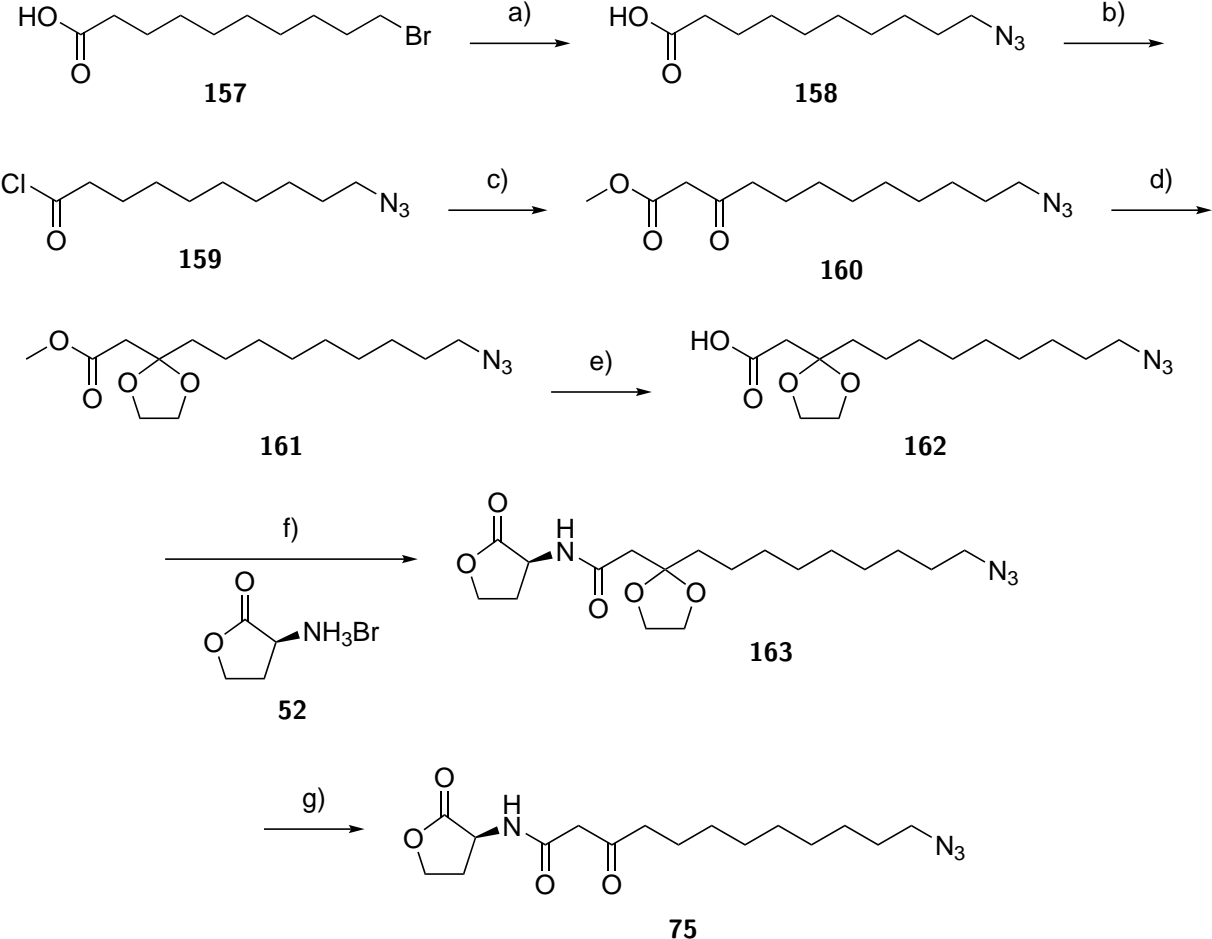


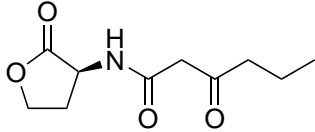


29



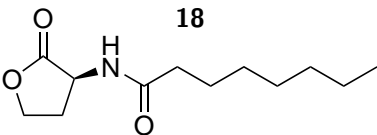
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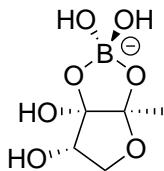
3-oxo-C₆-HSL

18



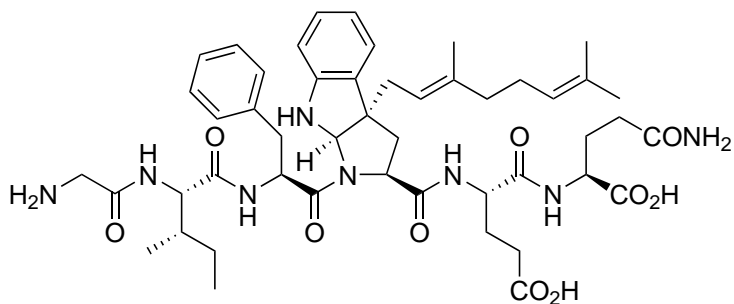
C₈-HSL

164



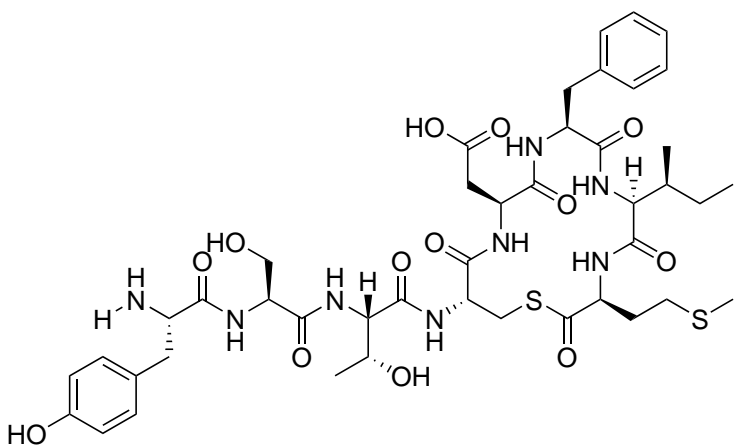
Al-2

23



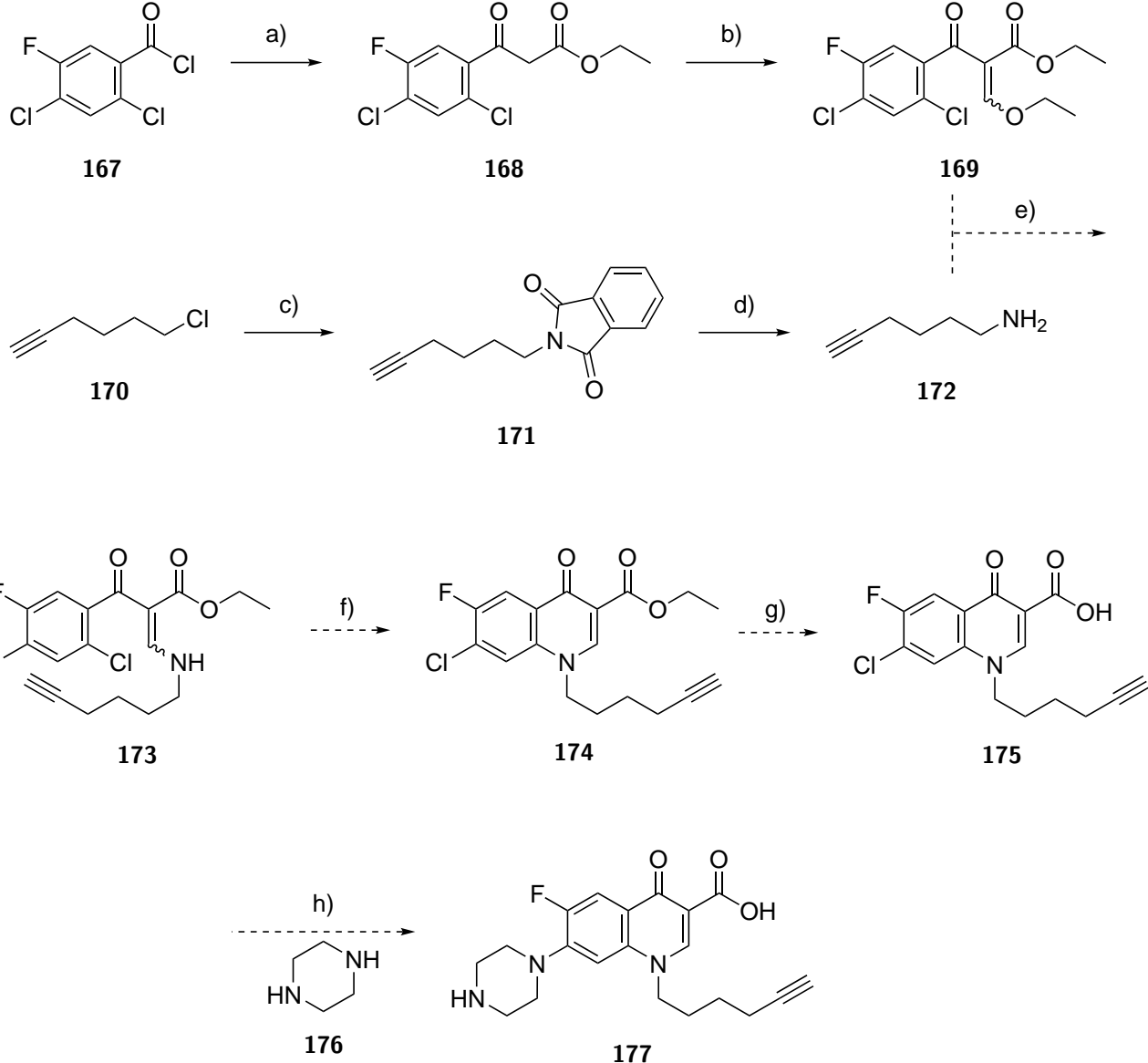
ComX

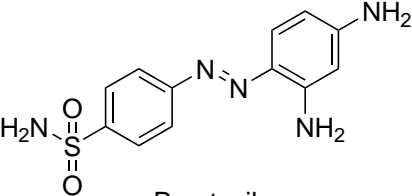
165



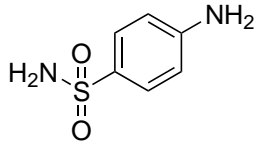
AIP

166

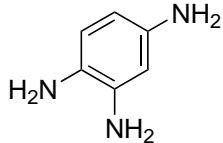




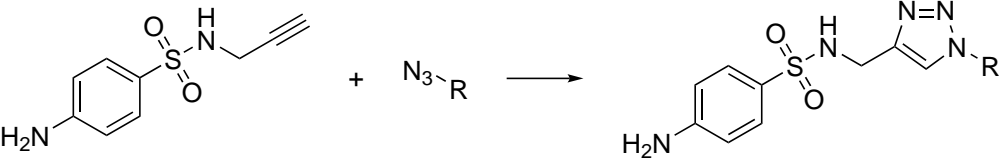
Prontosil
178

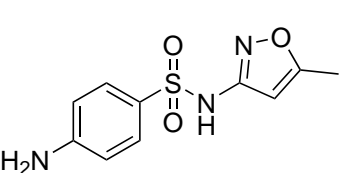


Sulfanilamide
179

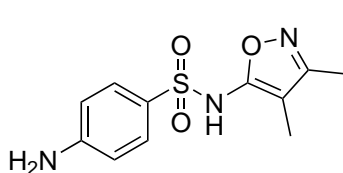


1,2,4-triaminobenzene
180

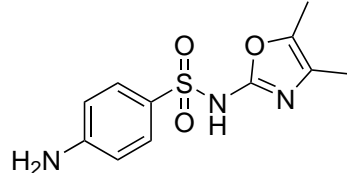




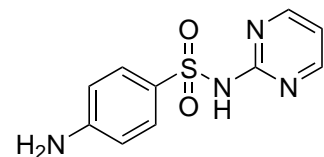
Sulfamethoxazole



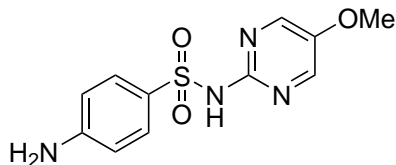
Sulfafurazole



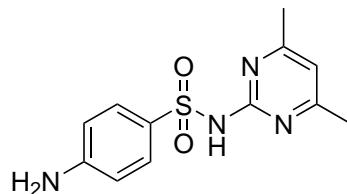
Sulfamoxole



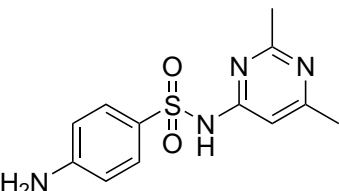
Sulfadiazine



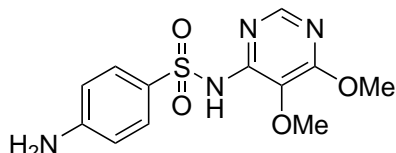
Sulfametoxydiazine



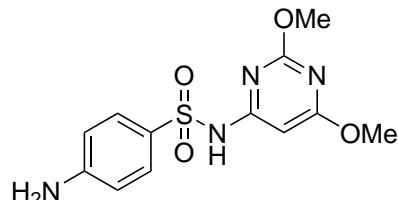
Sulfadimidine



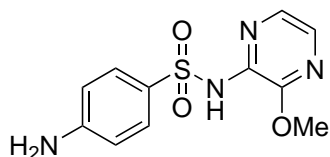
Sulfisomidine



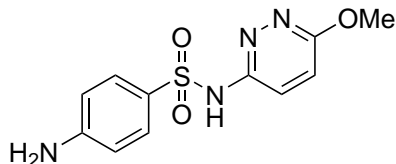
Sulfadoxine



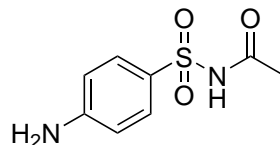
Sulfadoxine



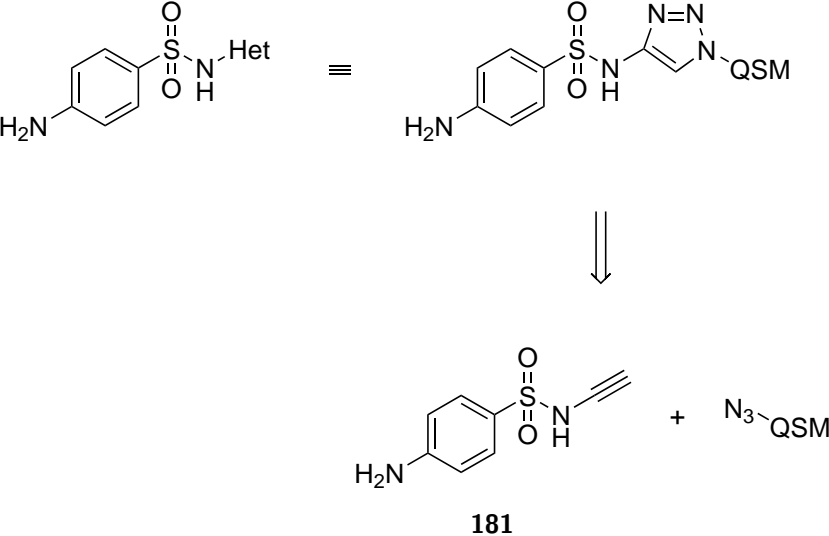
Sulfalene

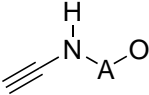


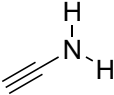
Sulfadoxine

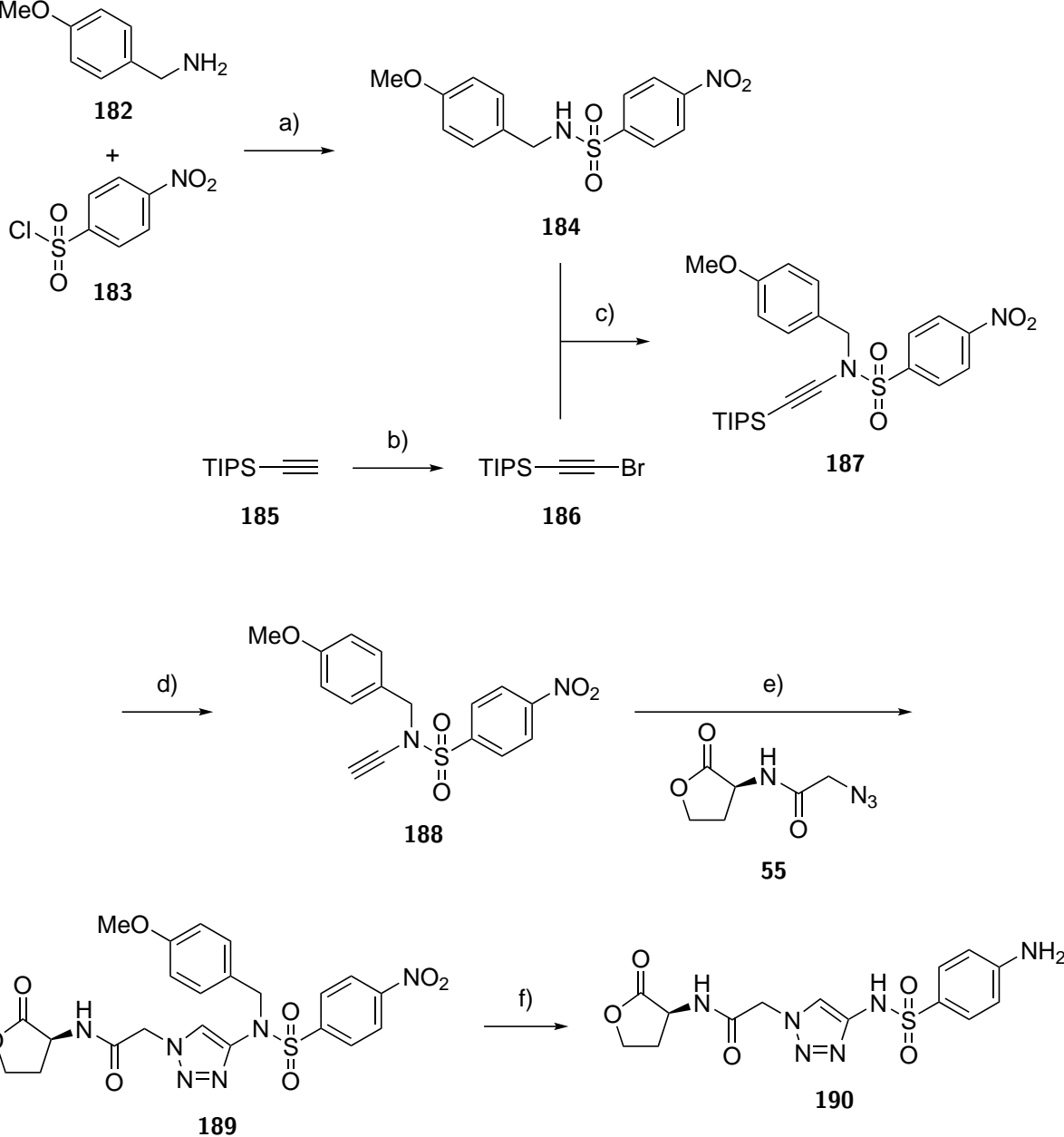


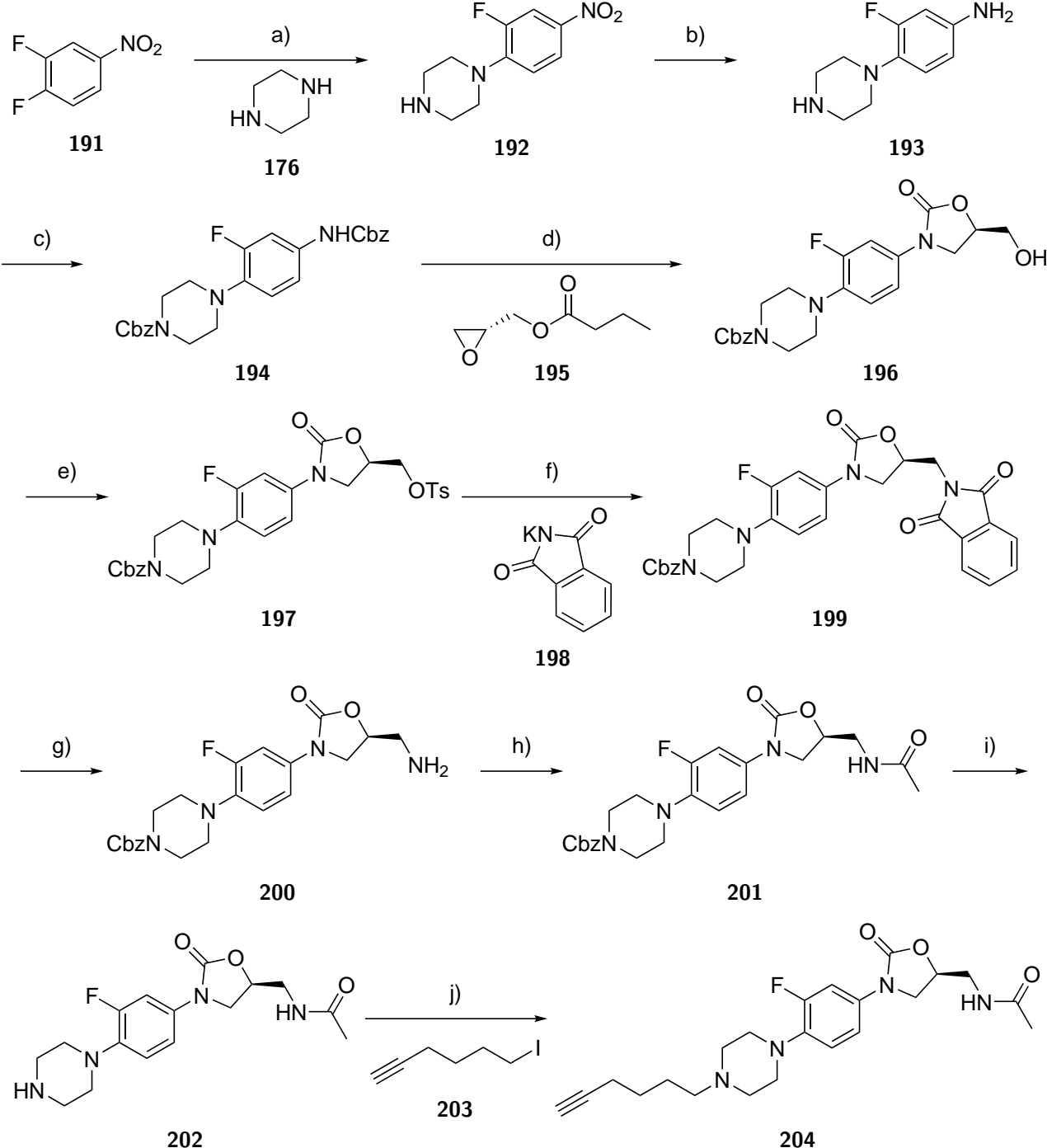
Sulfacetamide

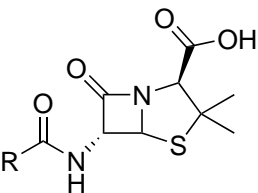




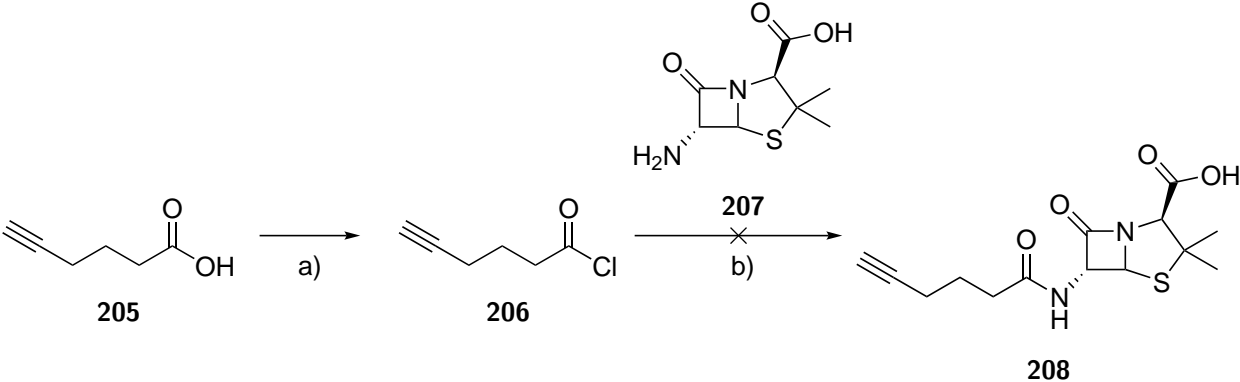


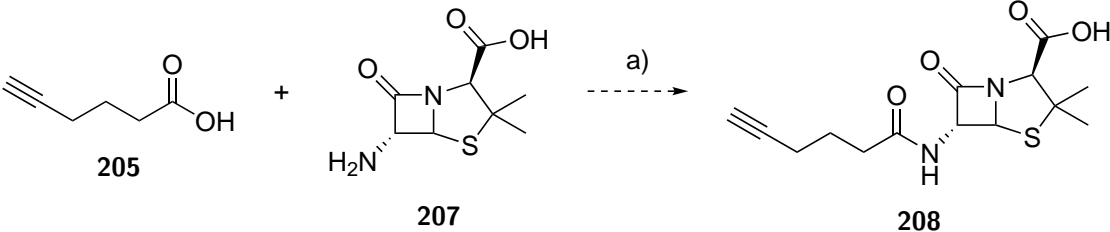


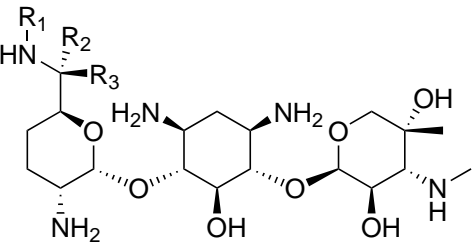




Name	R
Penicillin G	
Penicillin V	
Ampicillin	
Amoxicillin	
Methicillin	



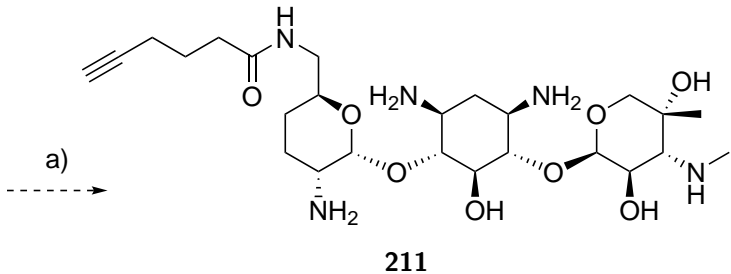


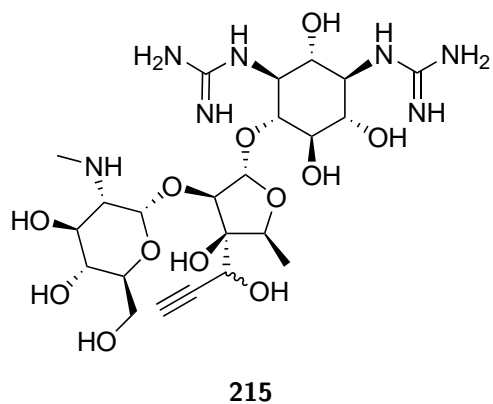
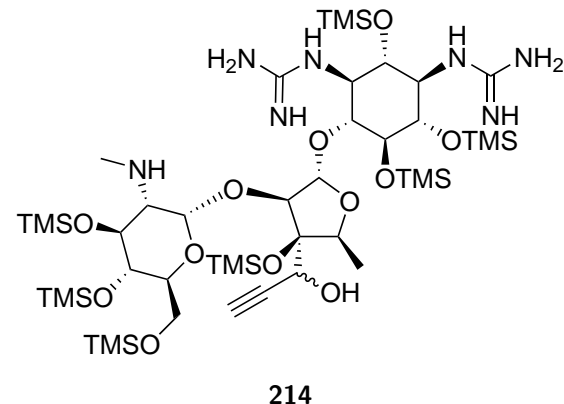
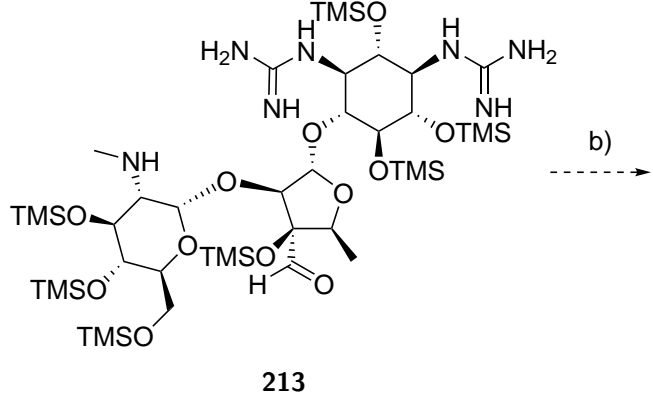
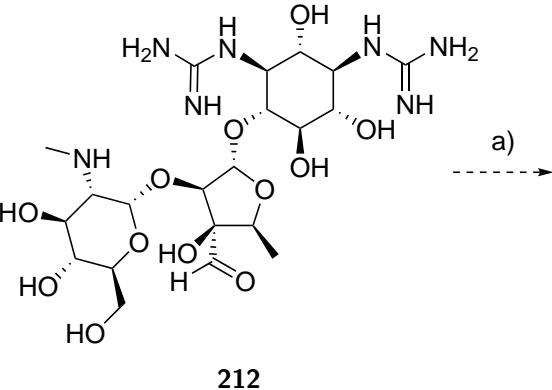


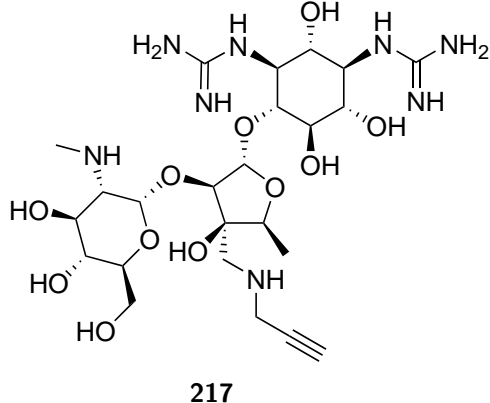
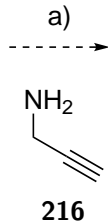
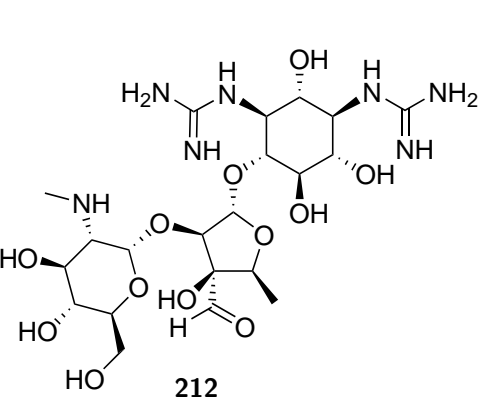
Gentamicin	R_1	R_2	R_3
C1	Me	Me	H
C1a	H	H	H
C2	H	Me	H
C2a	H	H	Me
C2b	Me	H	H

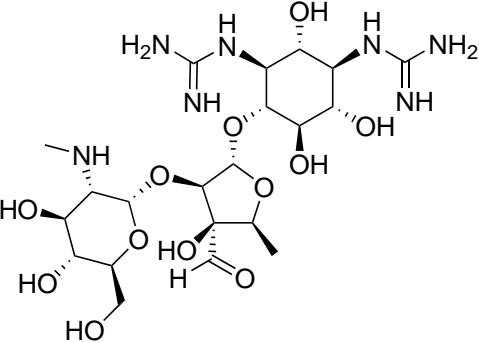
209

210

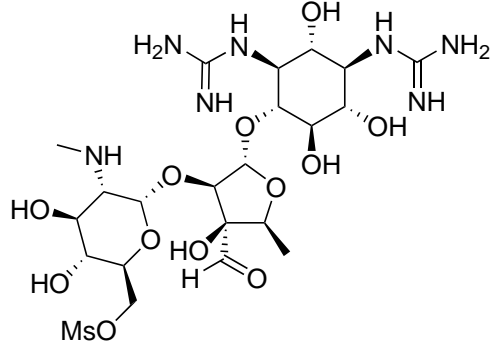
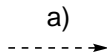




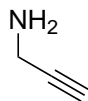
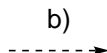




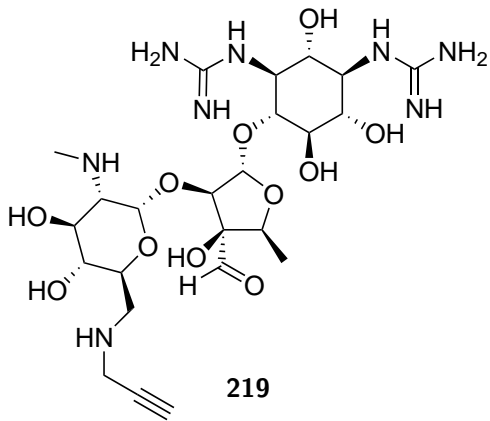
212



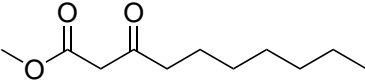
218



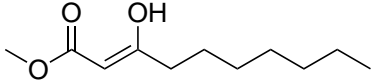
216



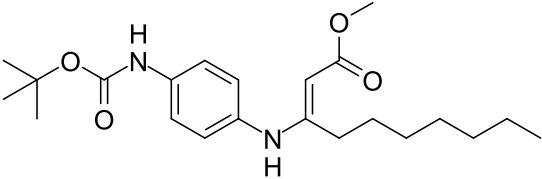
219

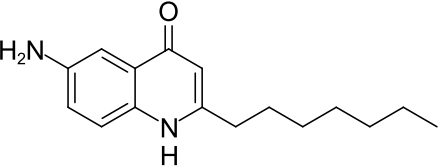


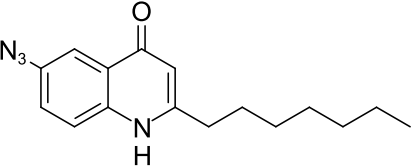
33
92 %

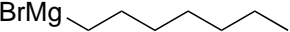


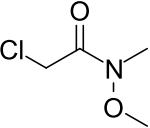
34
8 %

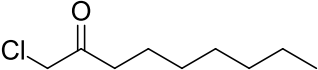


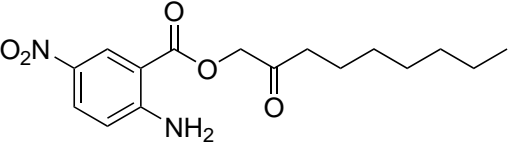


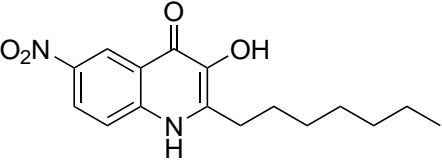


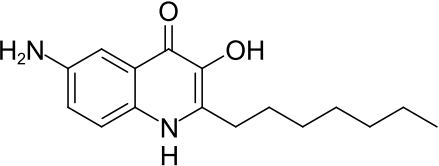


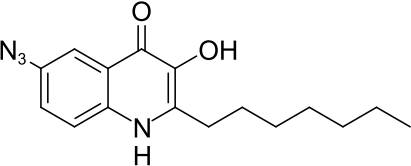


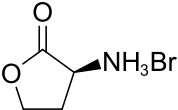


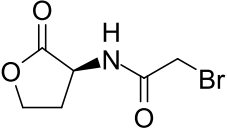


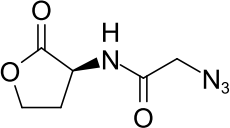


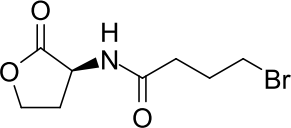


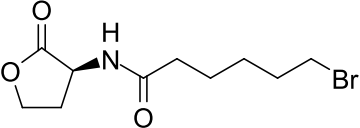


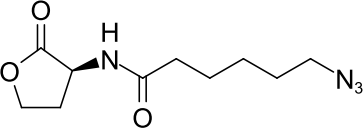


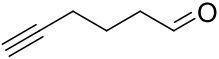


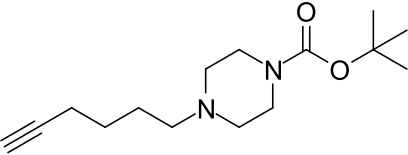


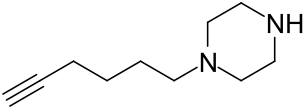


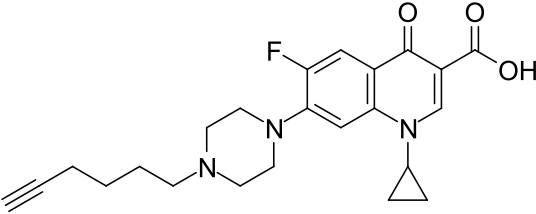


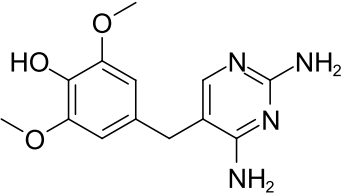


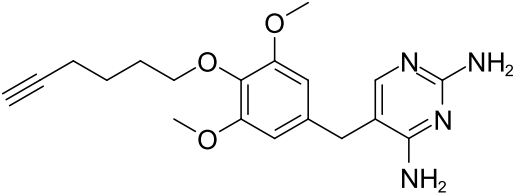


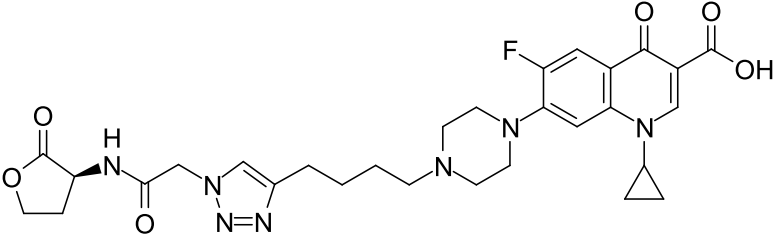


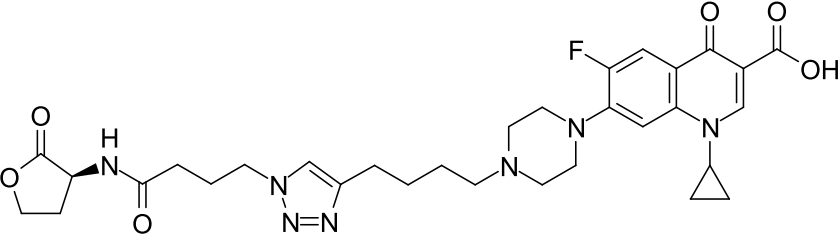


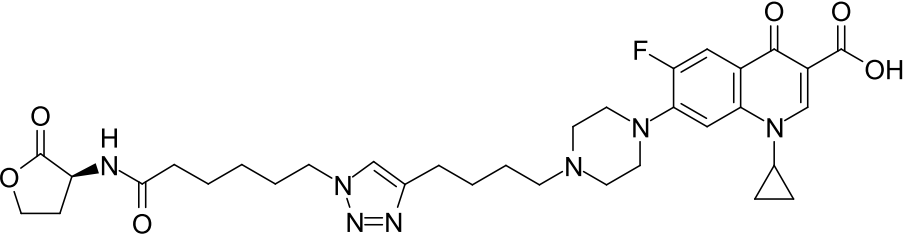


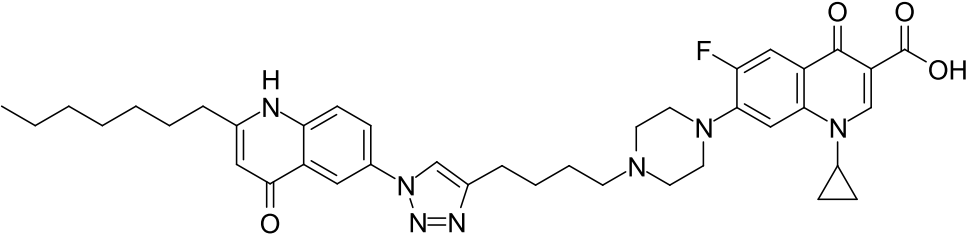


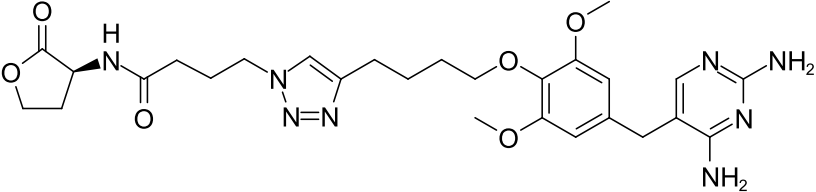


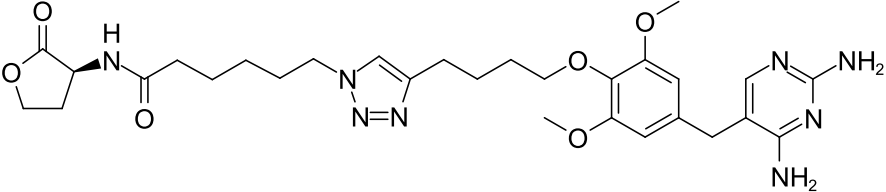


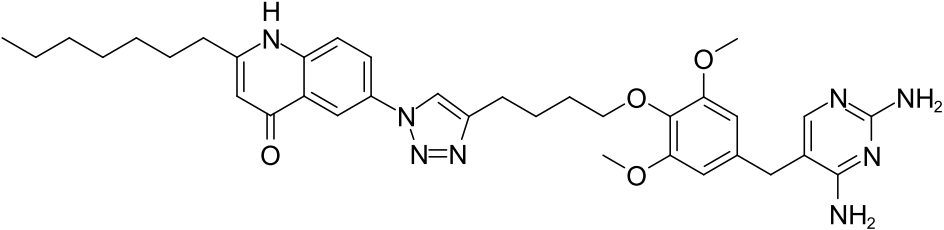


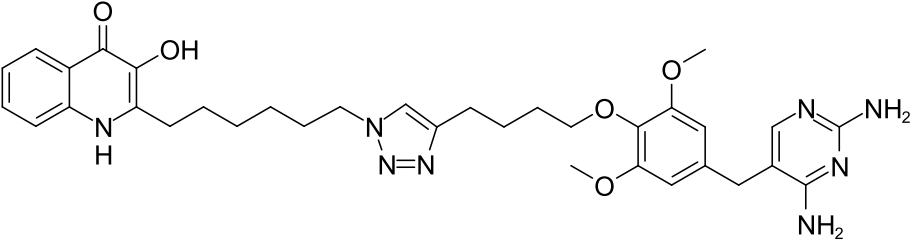


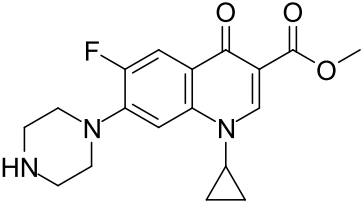


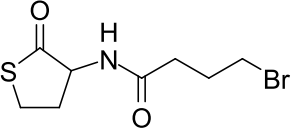


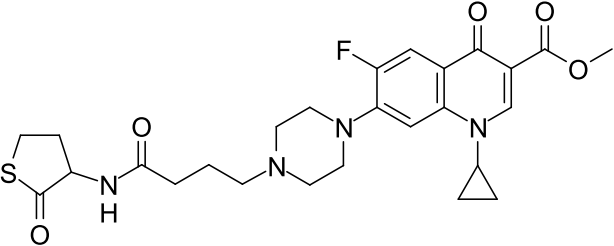


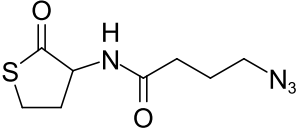


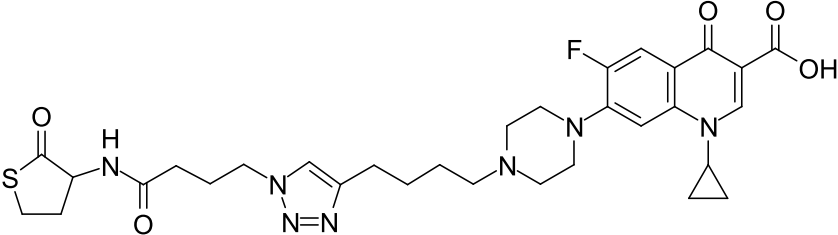


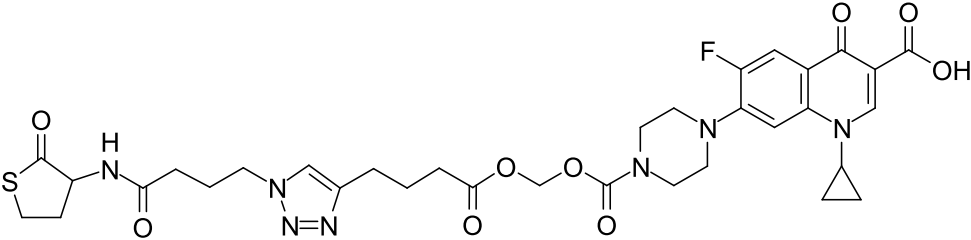


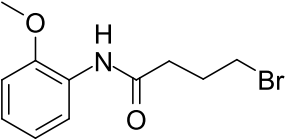


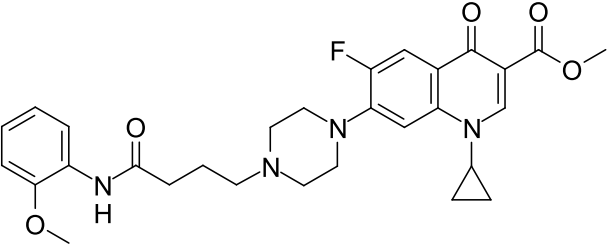


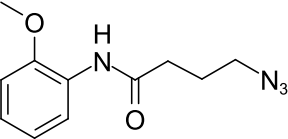


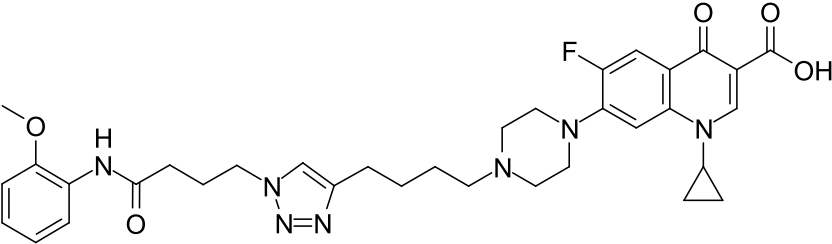


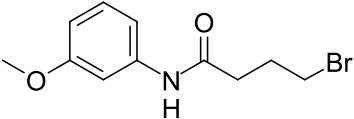


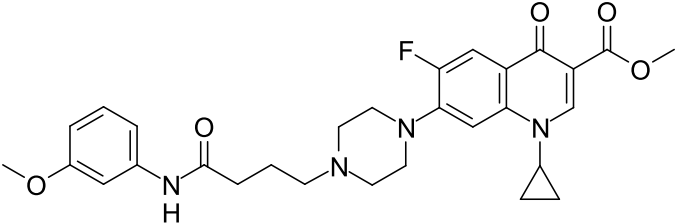


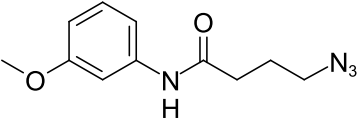


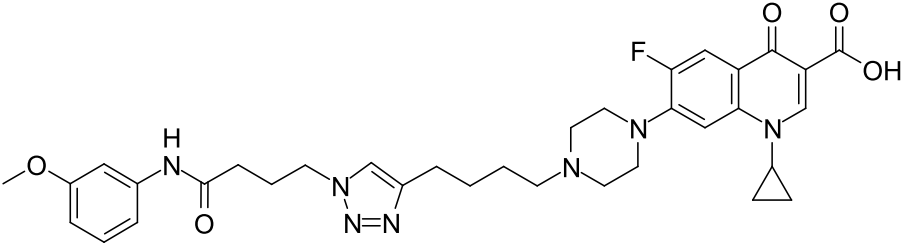


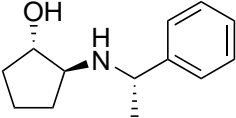




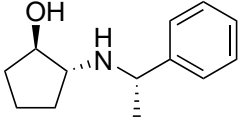








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