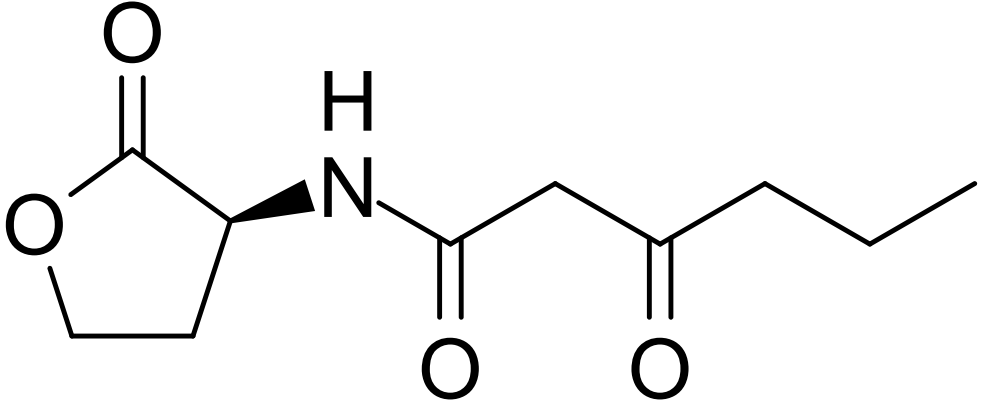
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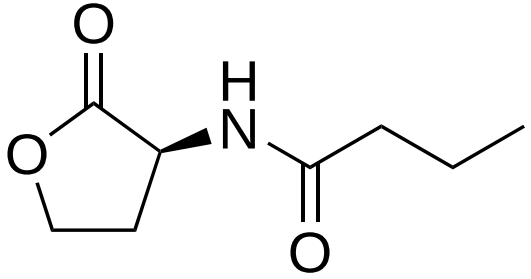

C_4-HSL

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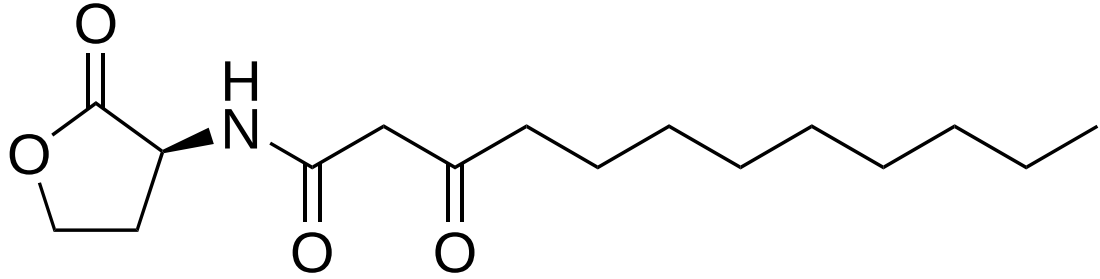

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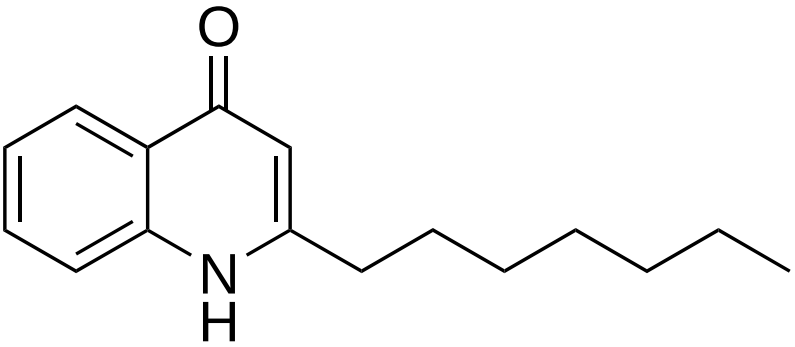

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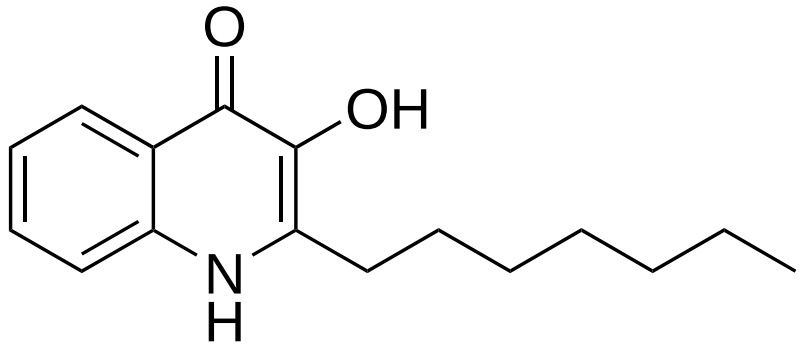

PQS

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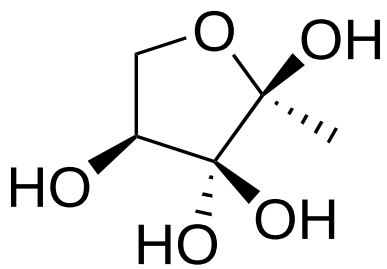

AI-2

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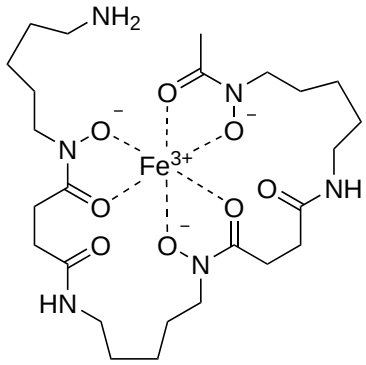

Deferoxamine B
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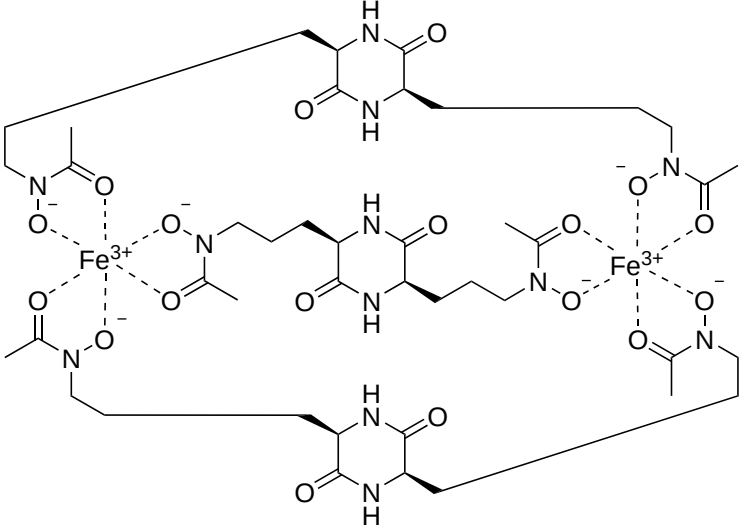

Rhodotorulic acid
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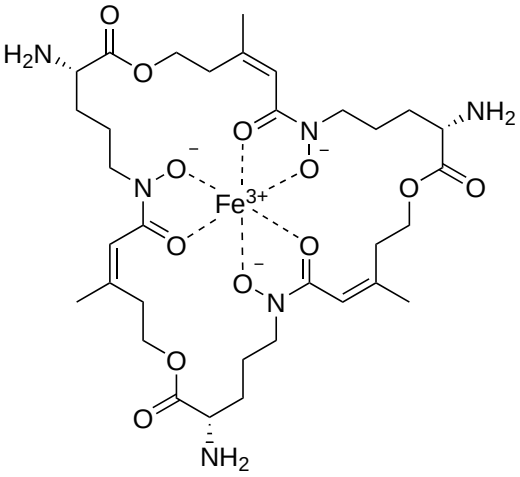

Fusarinine C
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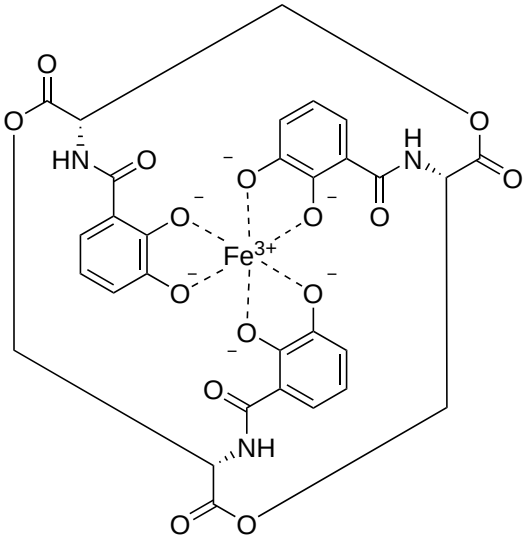

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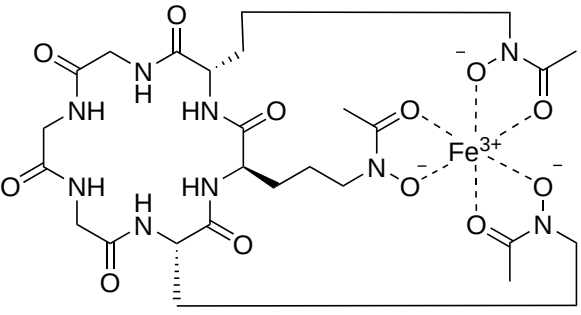

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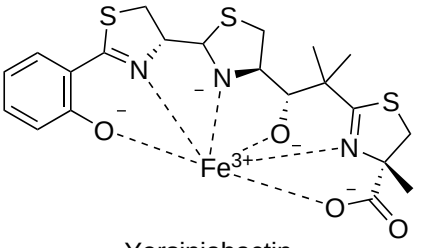

Yersiniabactin
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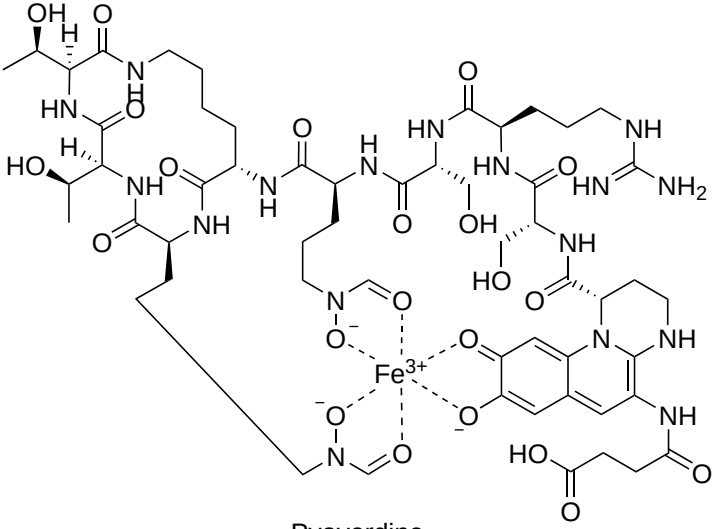

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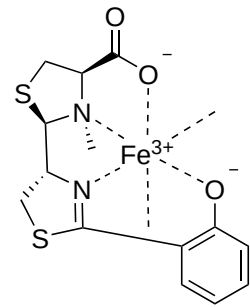

Pyochelin

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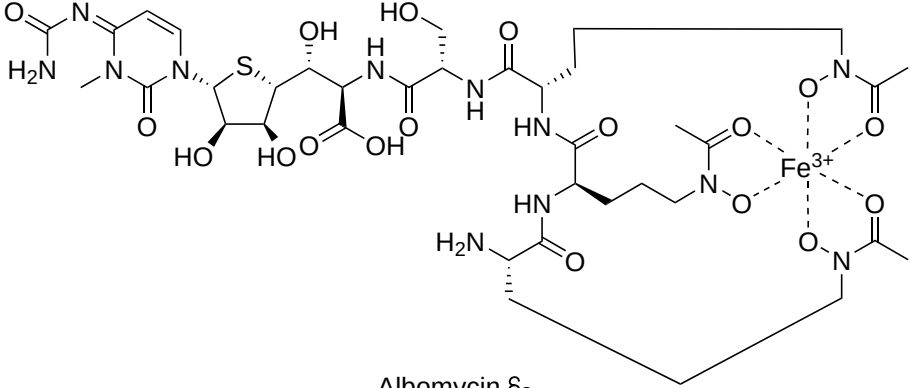

Albomycin δ_2
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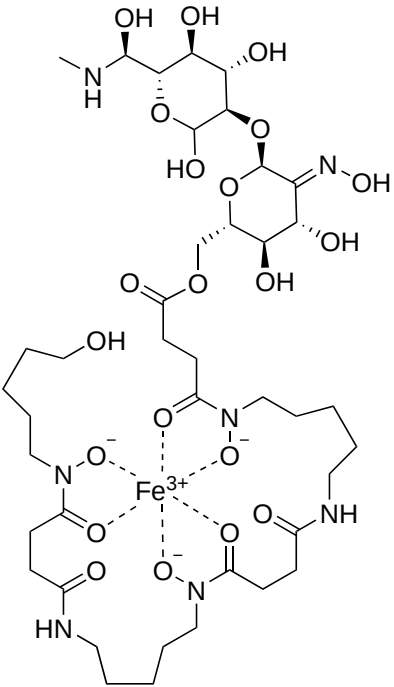

Salmycin A
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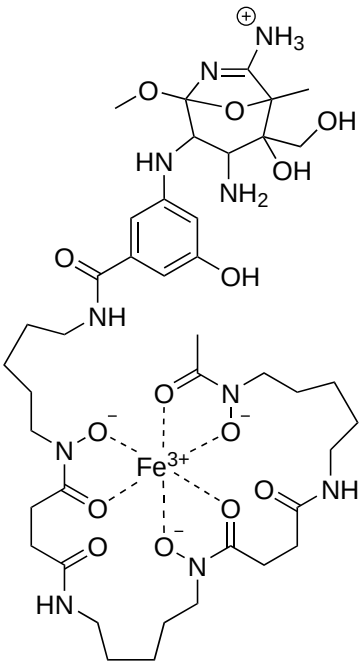

Ferrimycin A1
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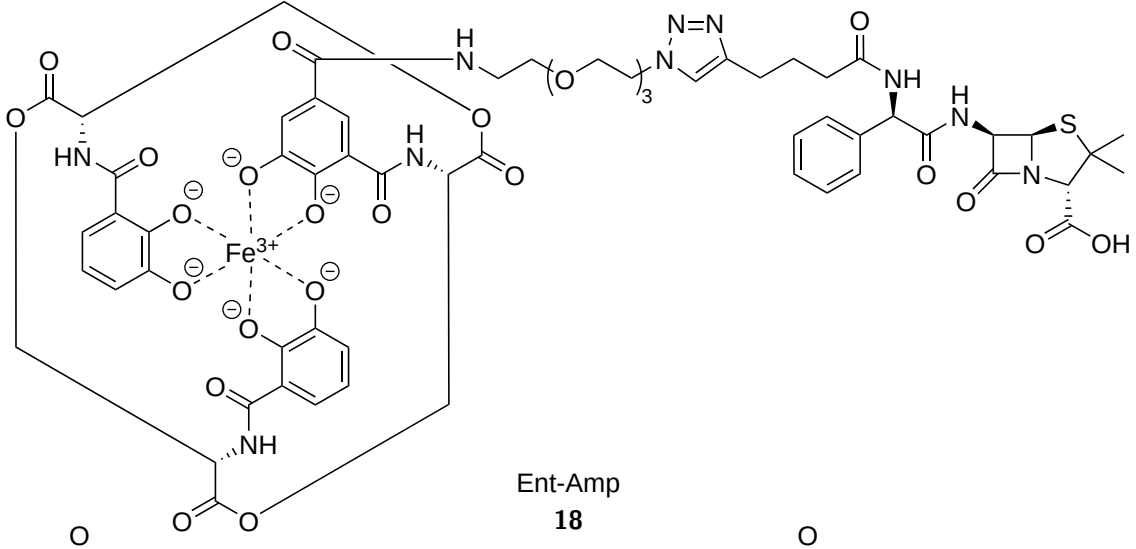

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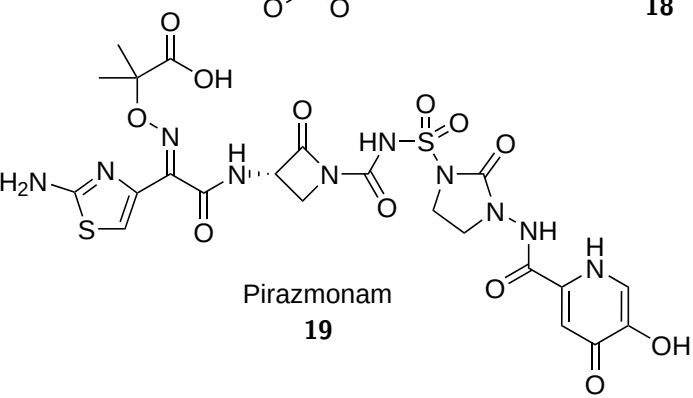

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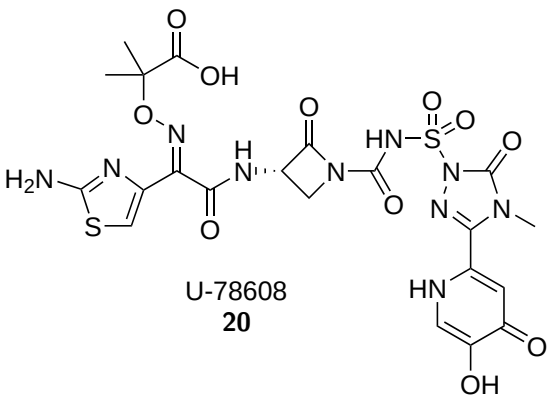

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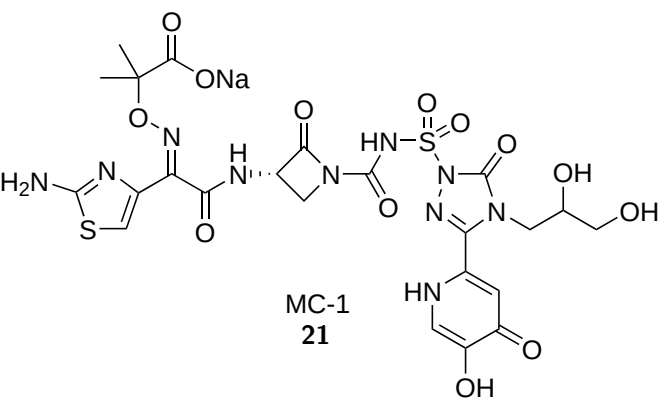

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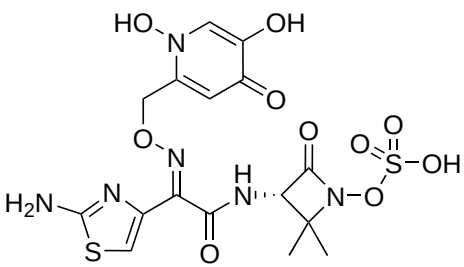

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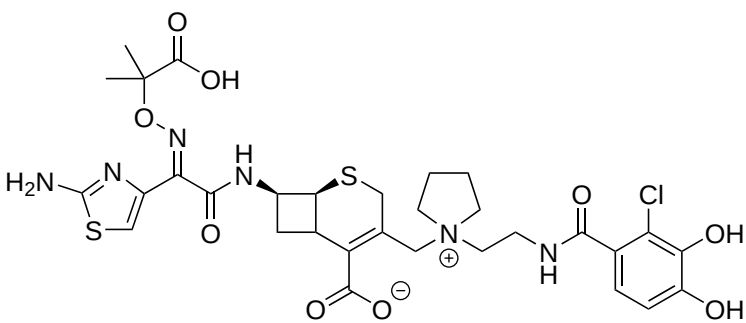

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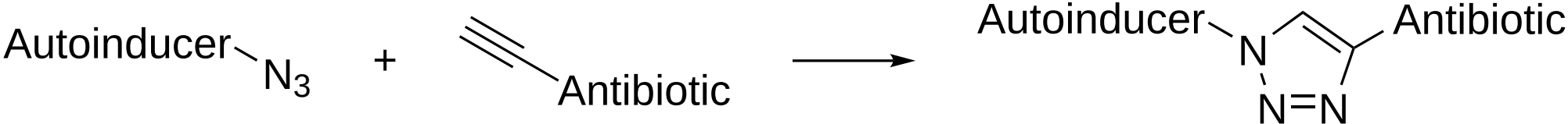
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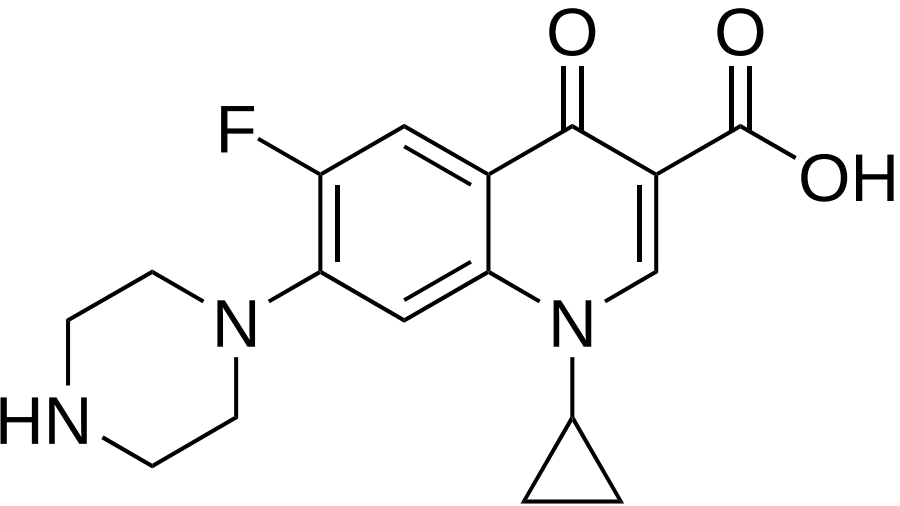

Ciprofloxacin

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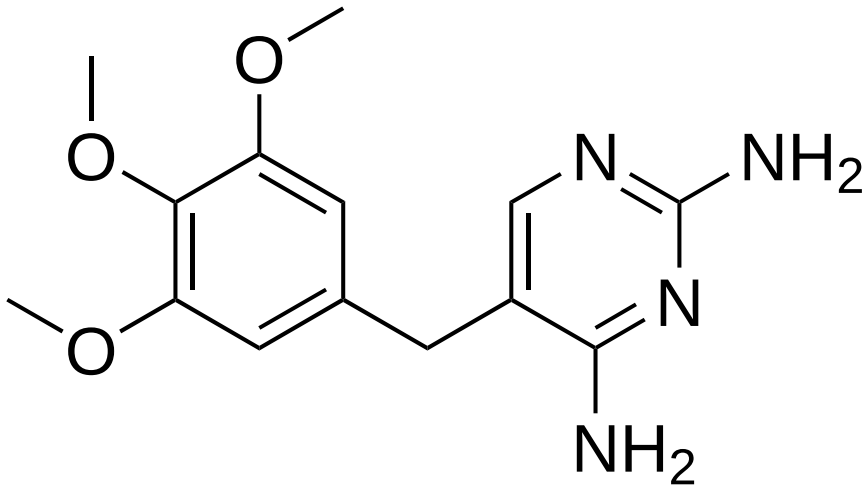

Trimethoprim

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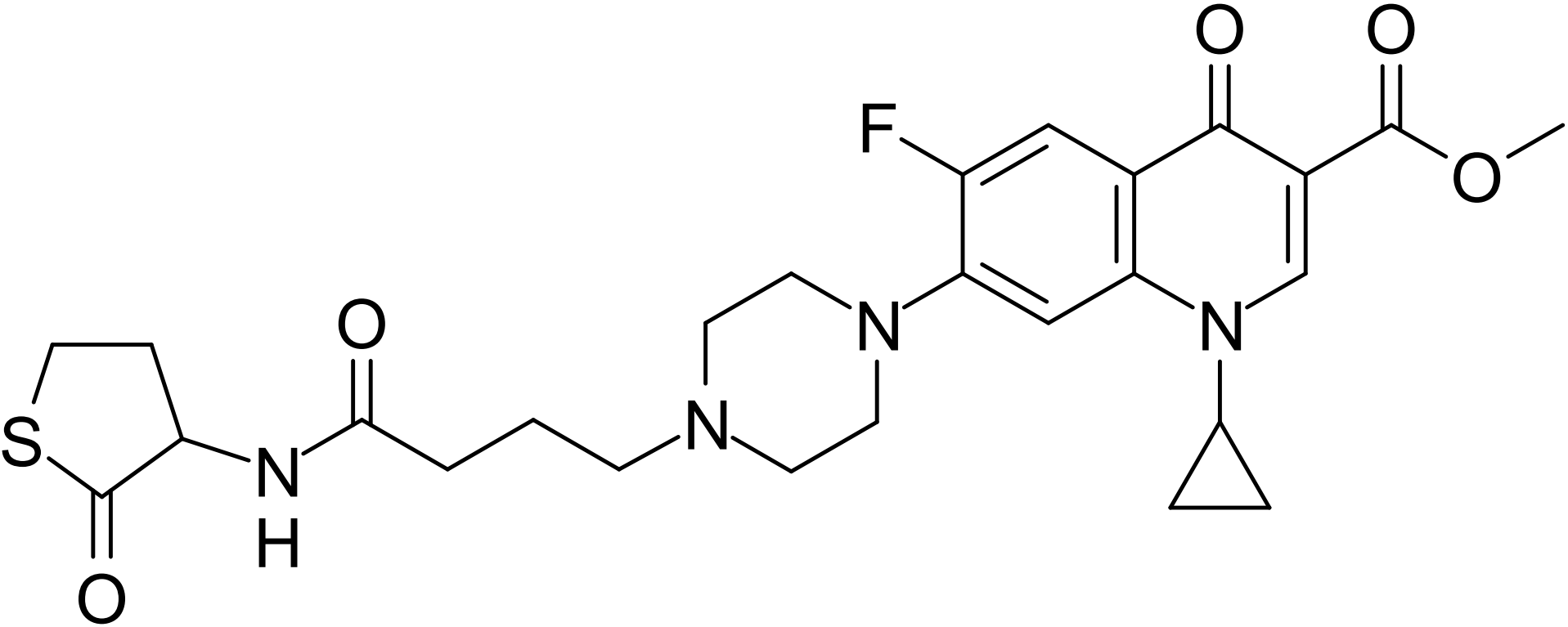
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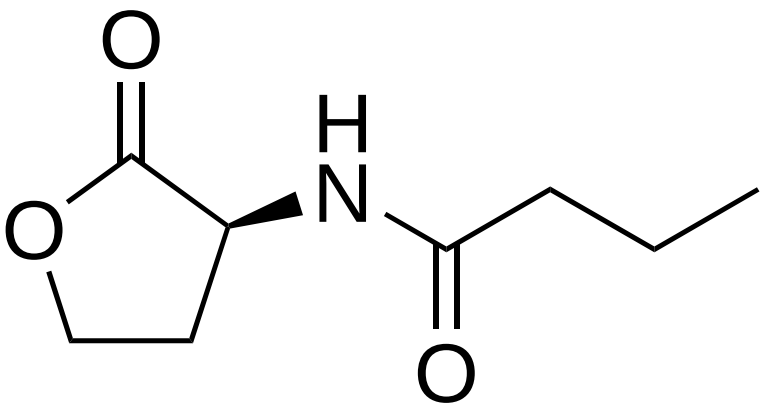

C_4-HSL

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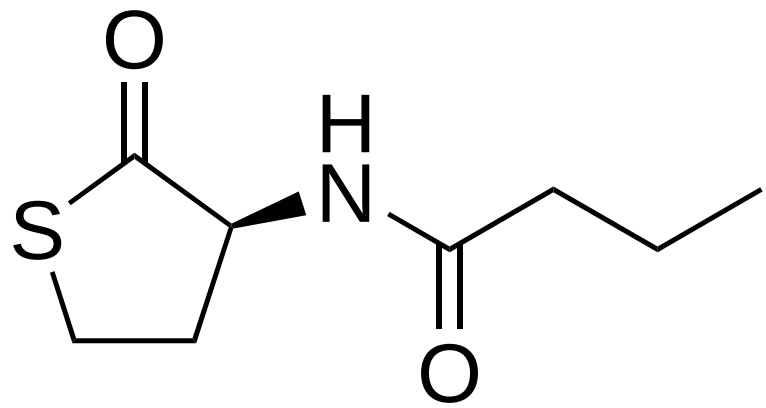

C_4-HCTL

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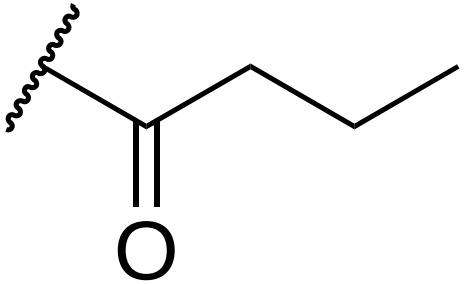
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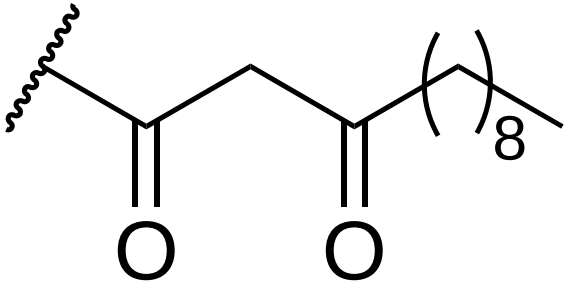
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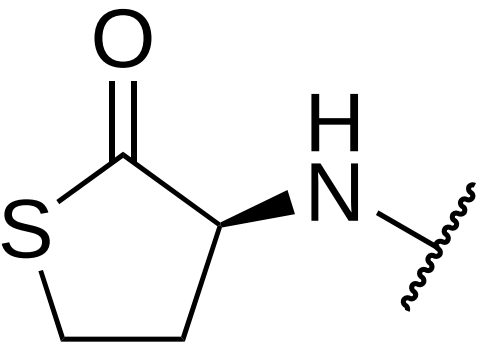
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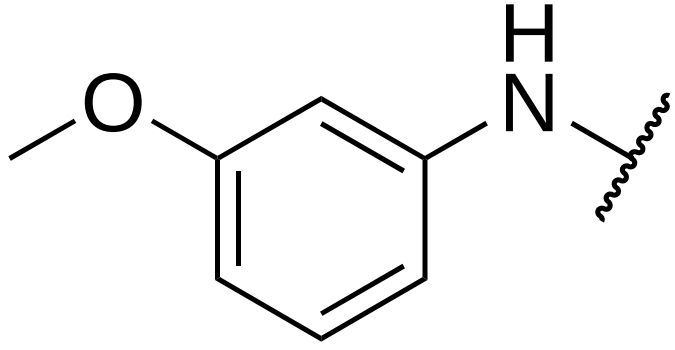
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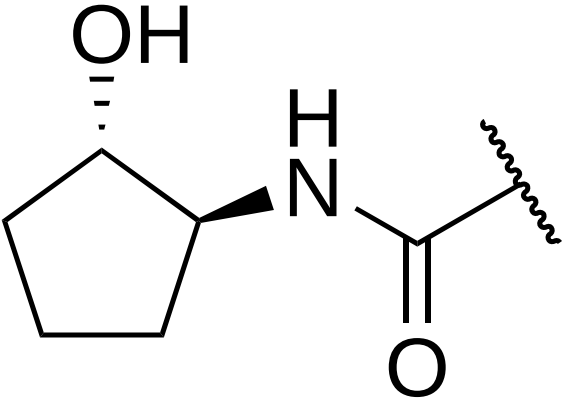
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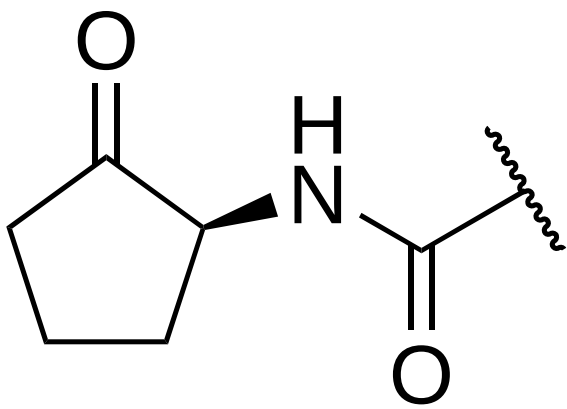
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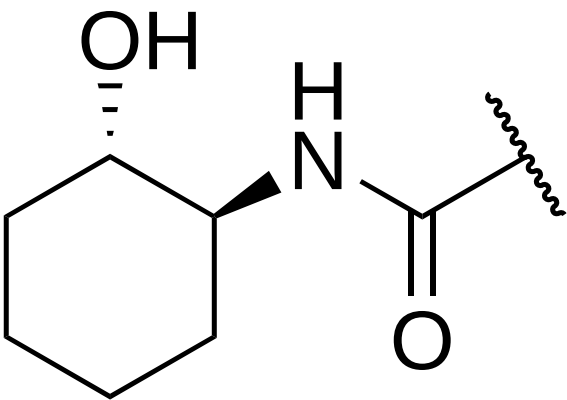
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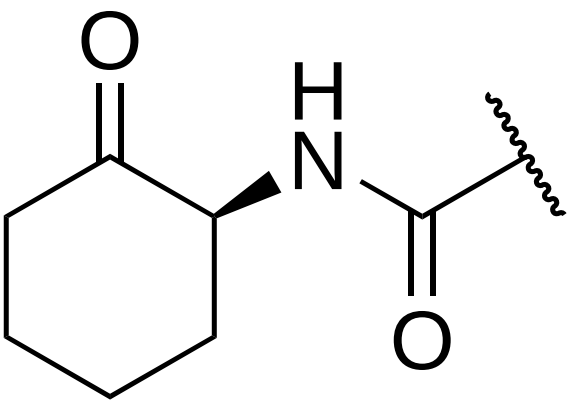
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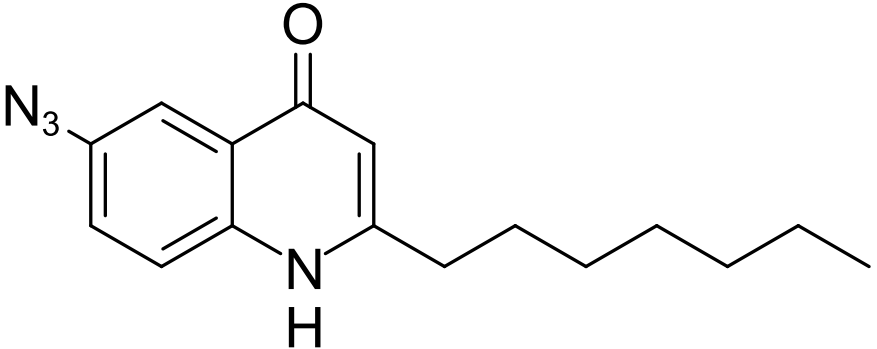
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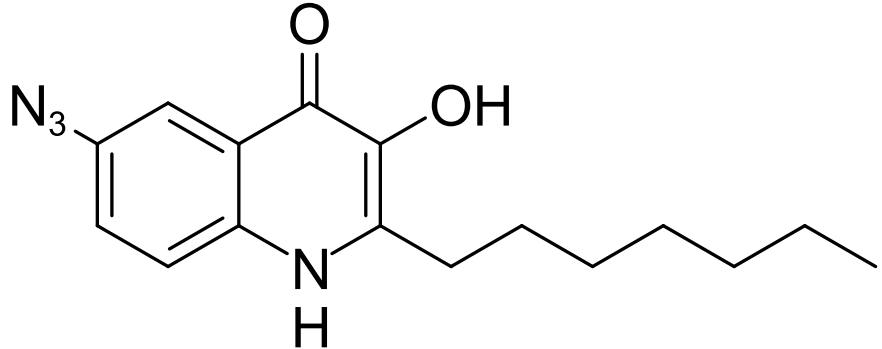
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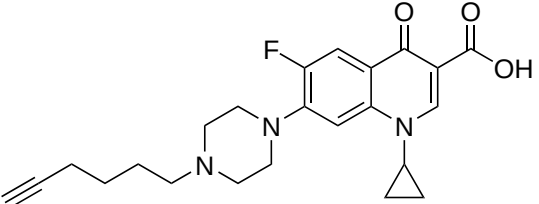

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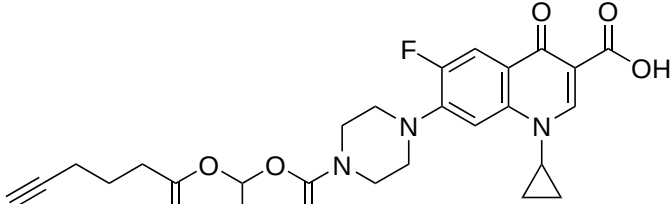

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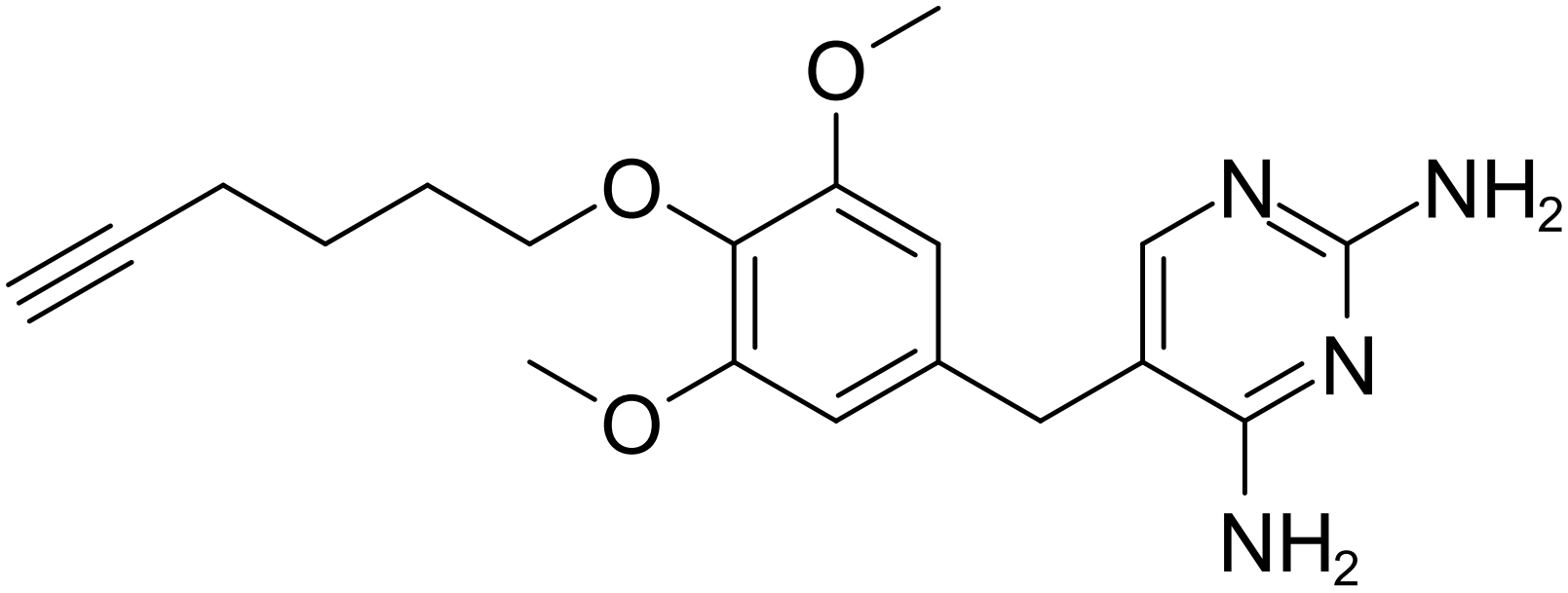
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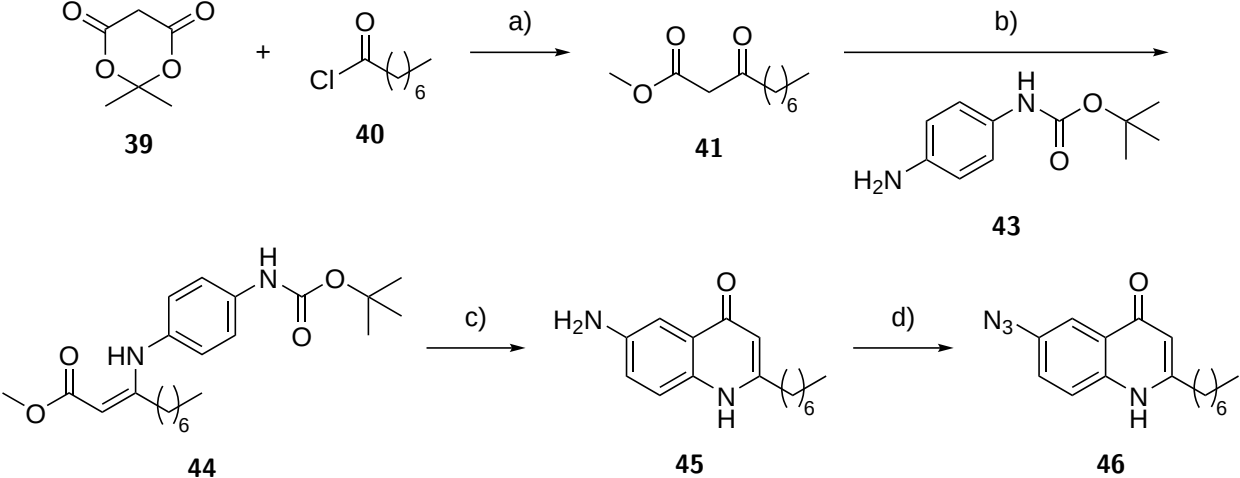
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b)
c)
d)
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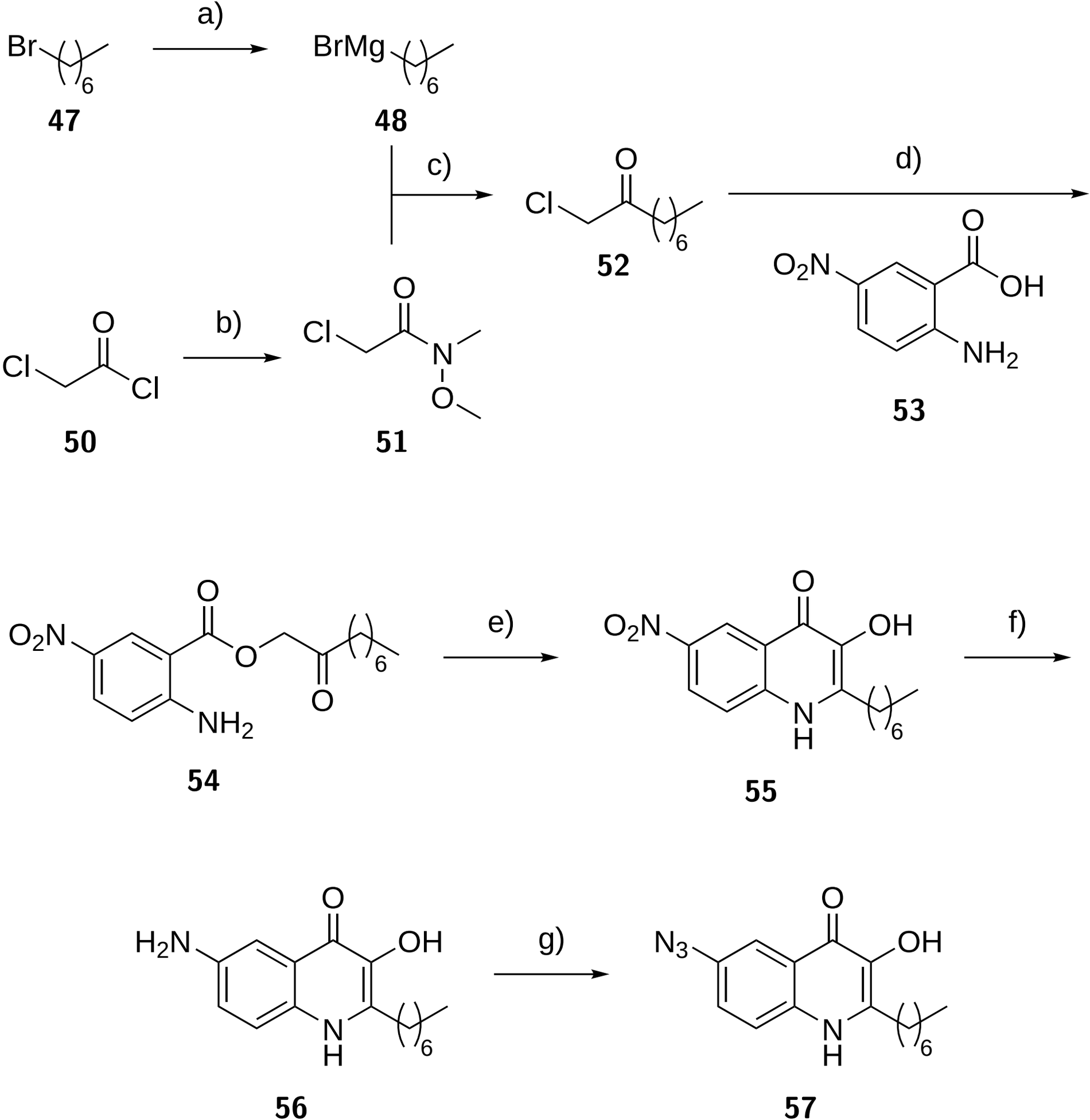
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BrMg
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c)
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Cl
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d)
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O
Cl
Cl
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b)
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Cl
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O
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O
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NH_2
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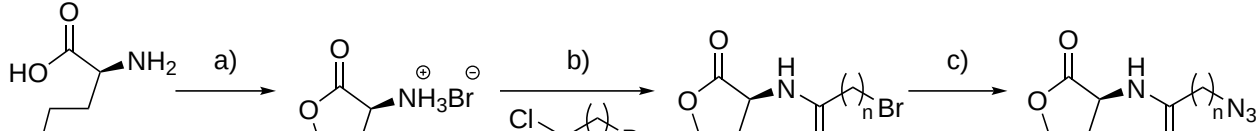

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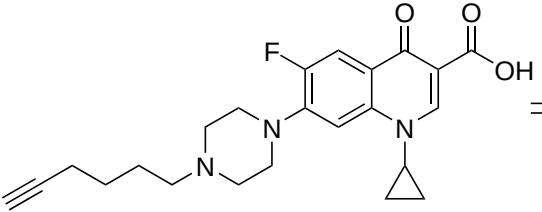

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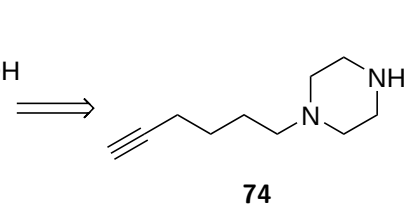

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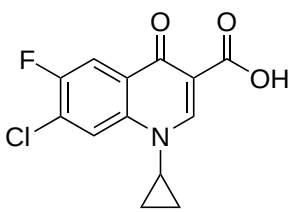

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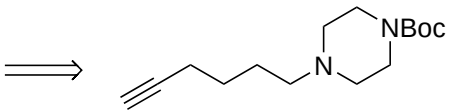

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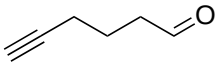

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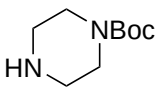

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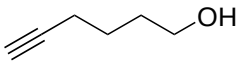

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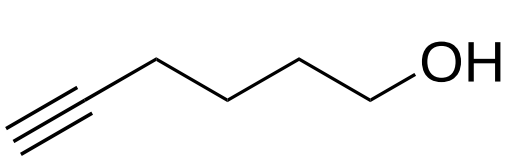

70

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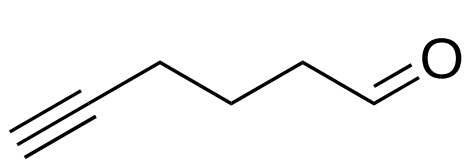

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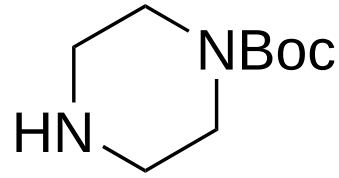

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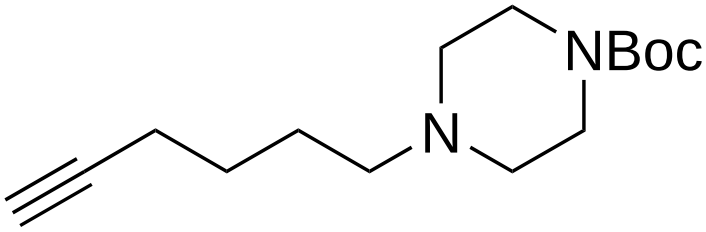

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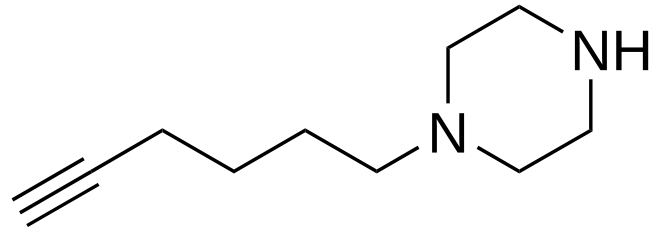

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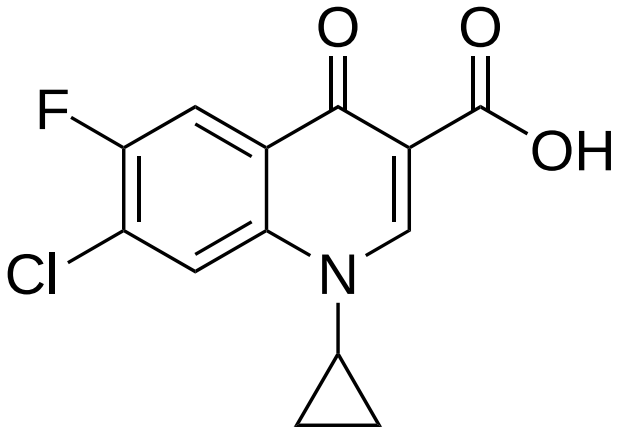

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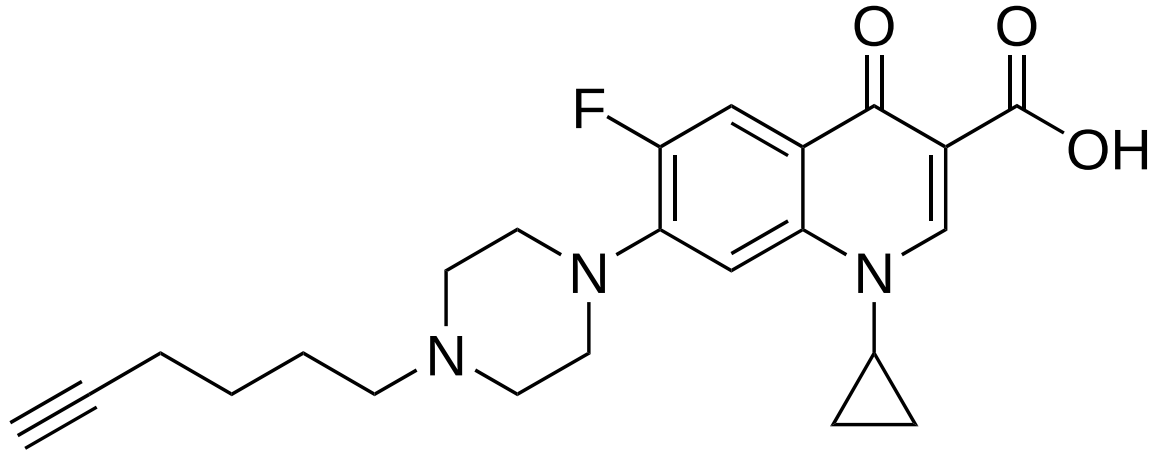

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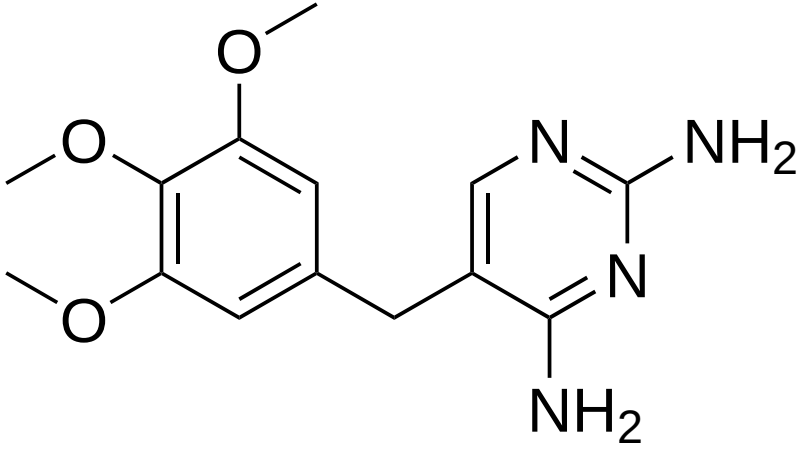

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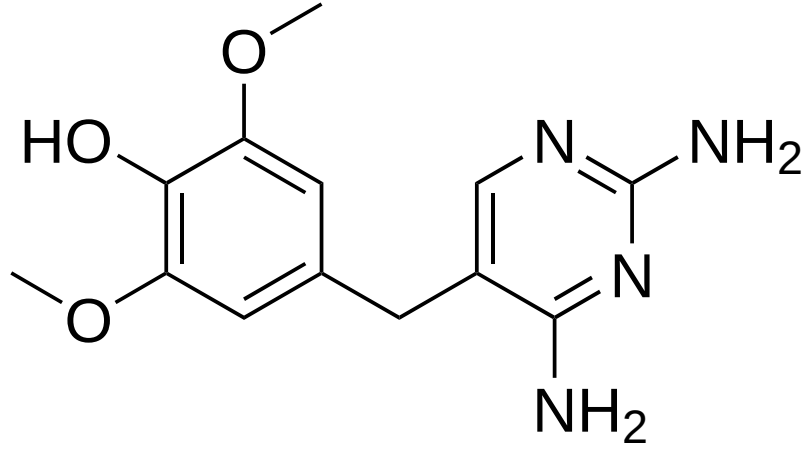

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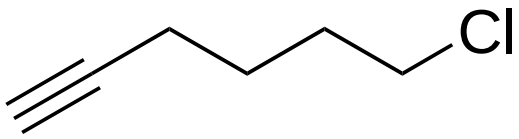

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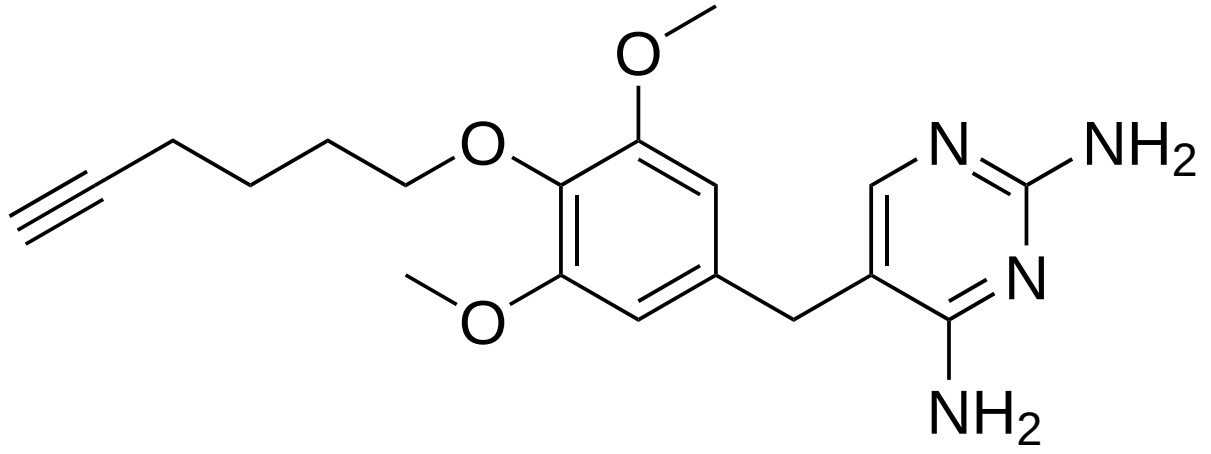

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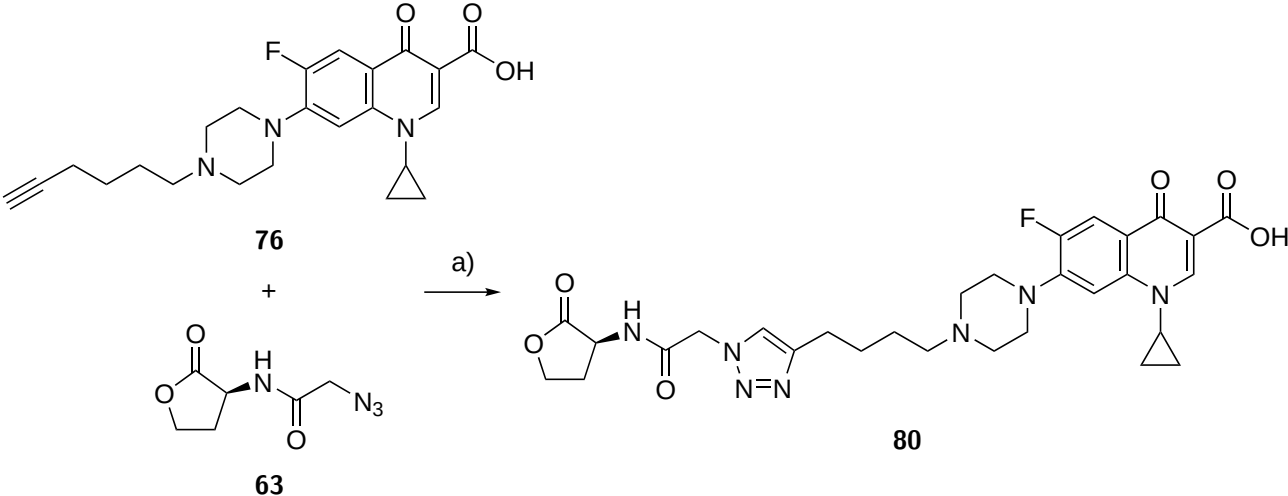
F
O
O
OH
N
N
N
76
+
O
O
H
N
N3
O
63
a)
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O
H
N
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N
N=N
N
N
F
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O
OH
N
N
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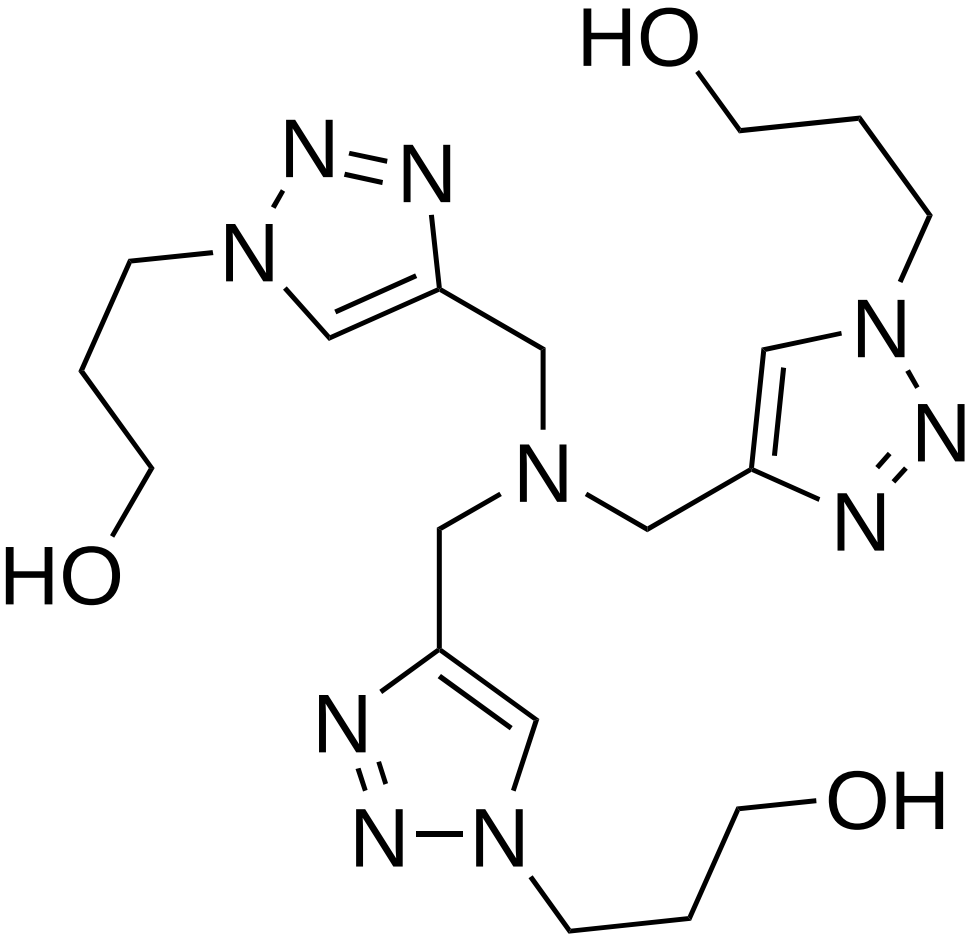
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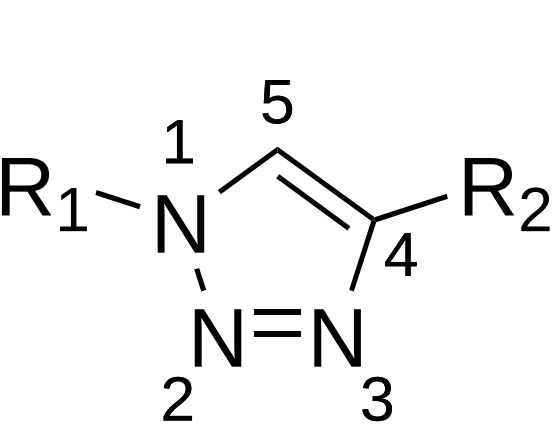
OH


R1
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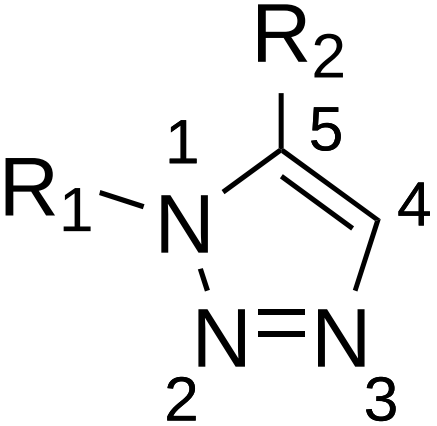
5
R2
N
4
N=N
2
3

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R1
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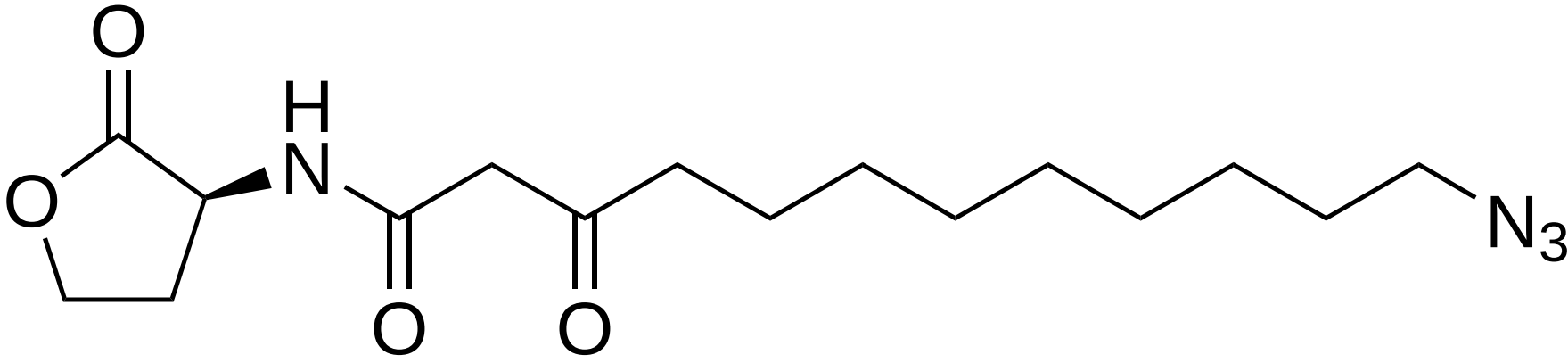
4
N
N=N
2
3



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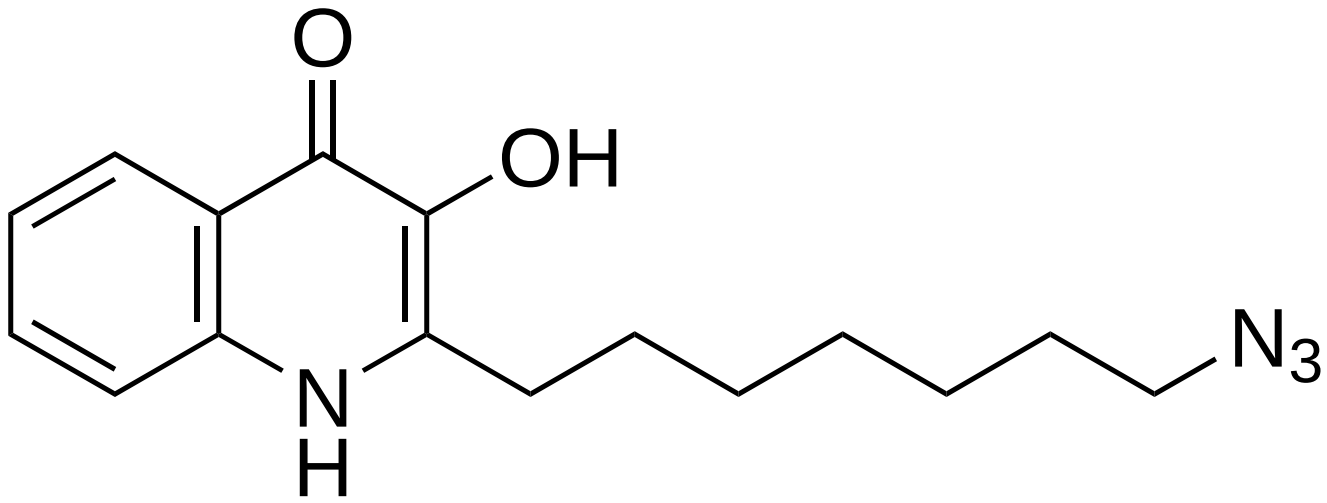

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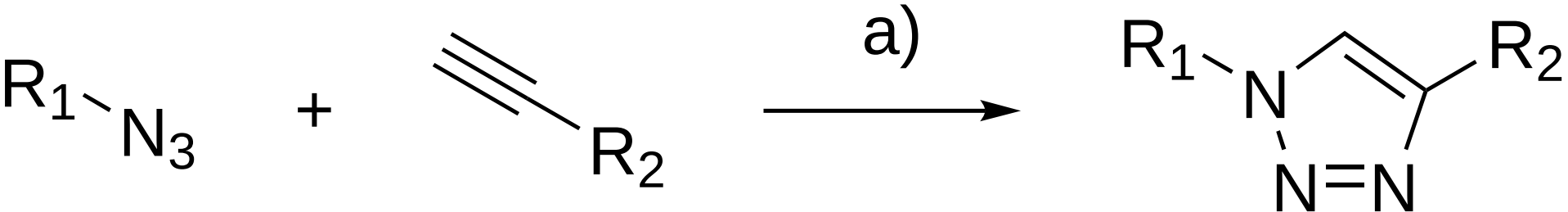
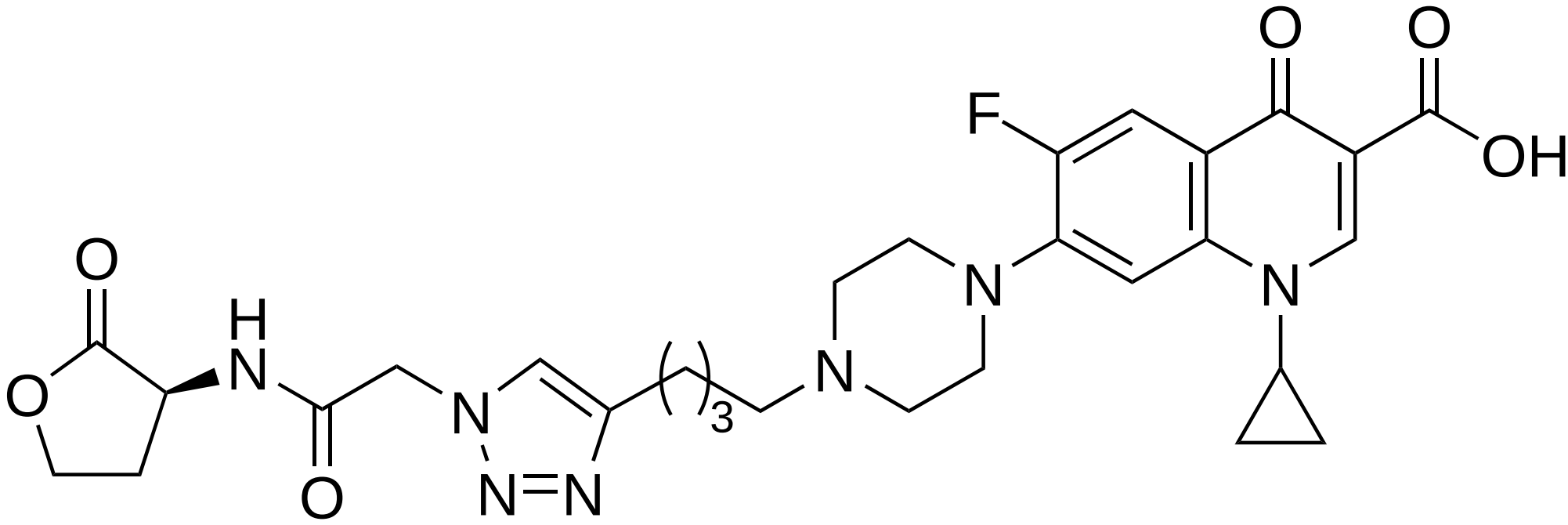

R1
N3
+
R2
a)
R1
N
R2
N=N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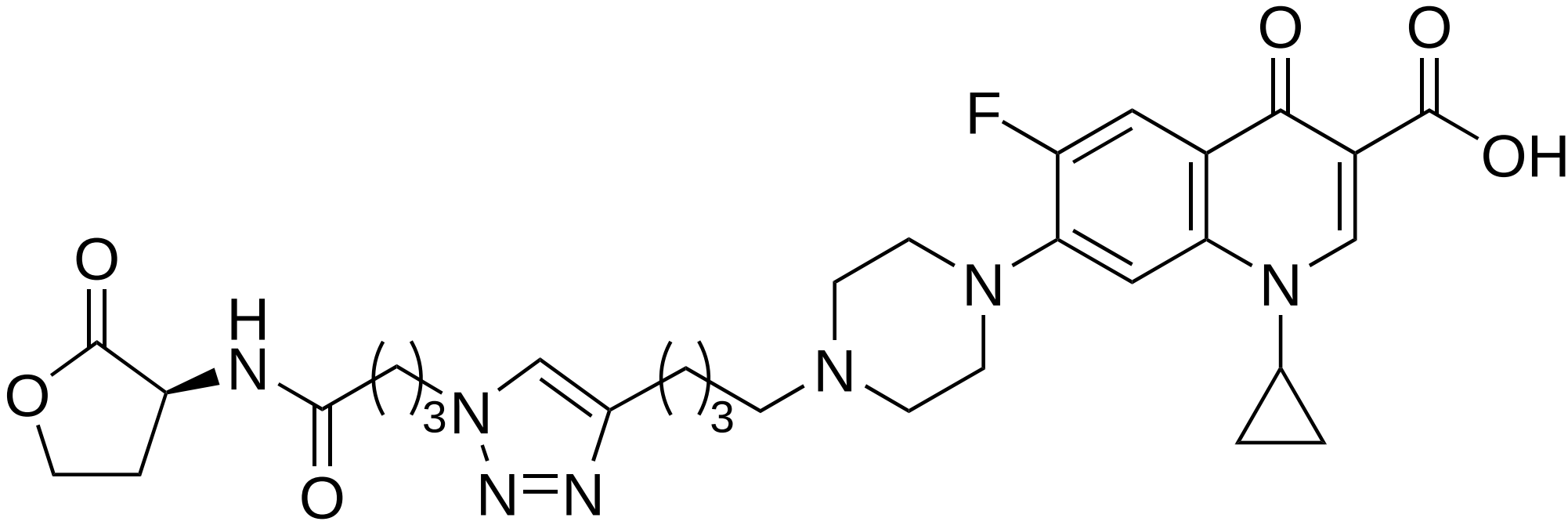
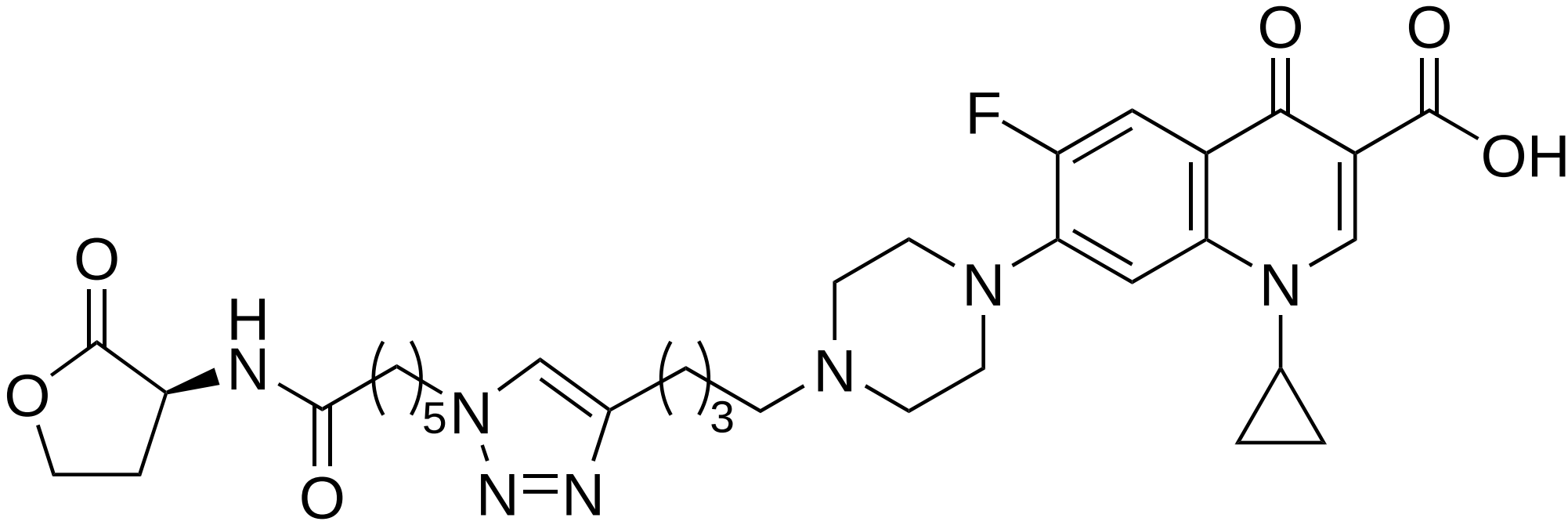
O
3

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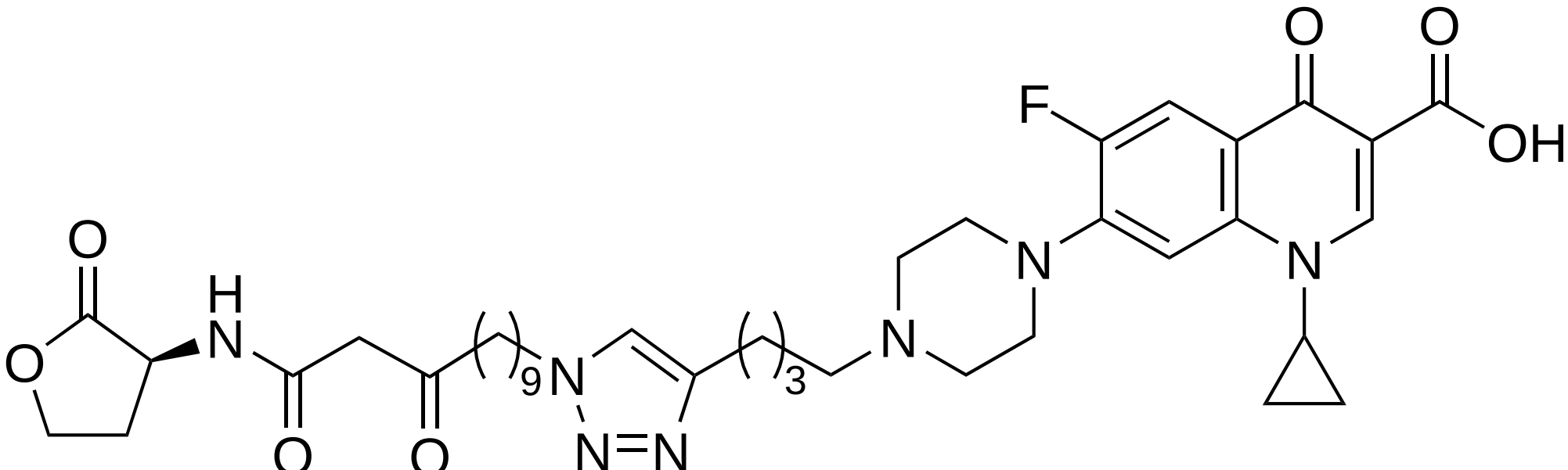
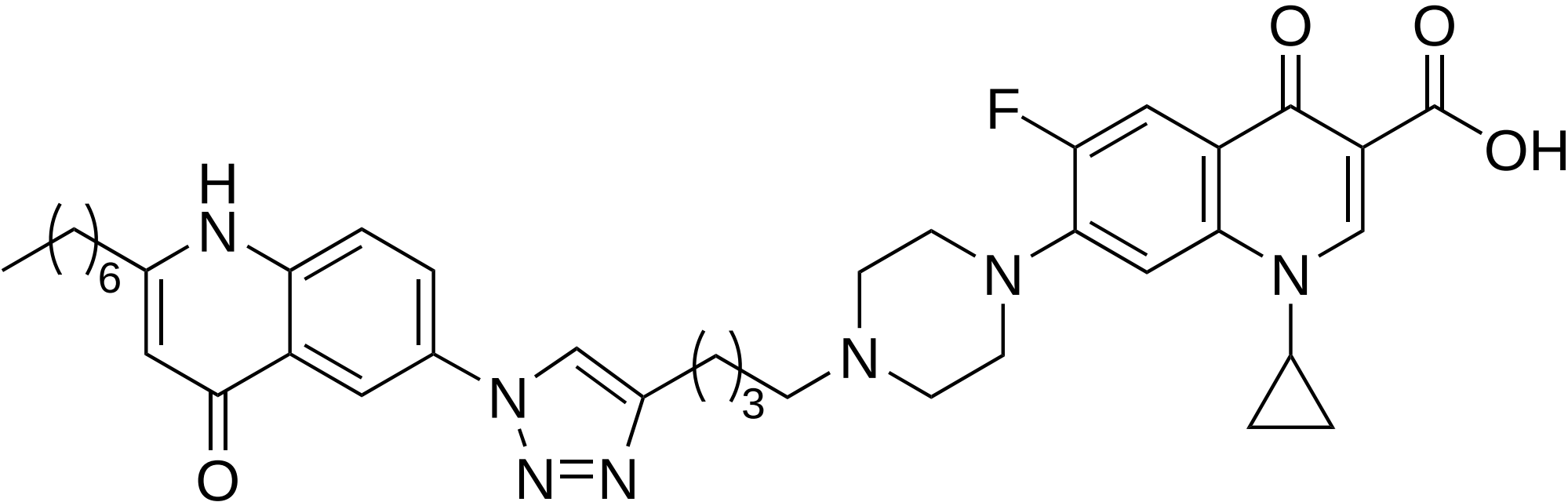
O
O
N=N

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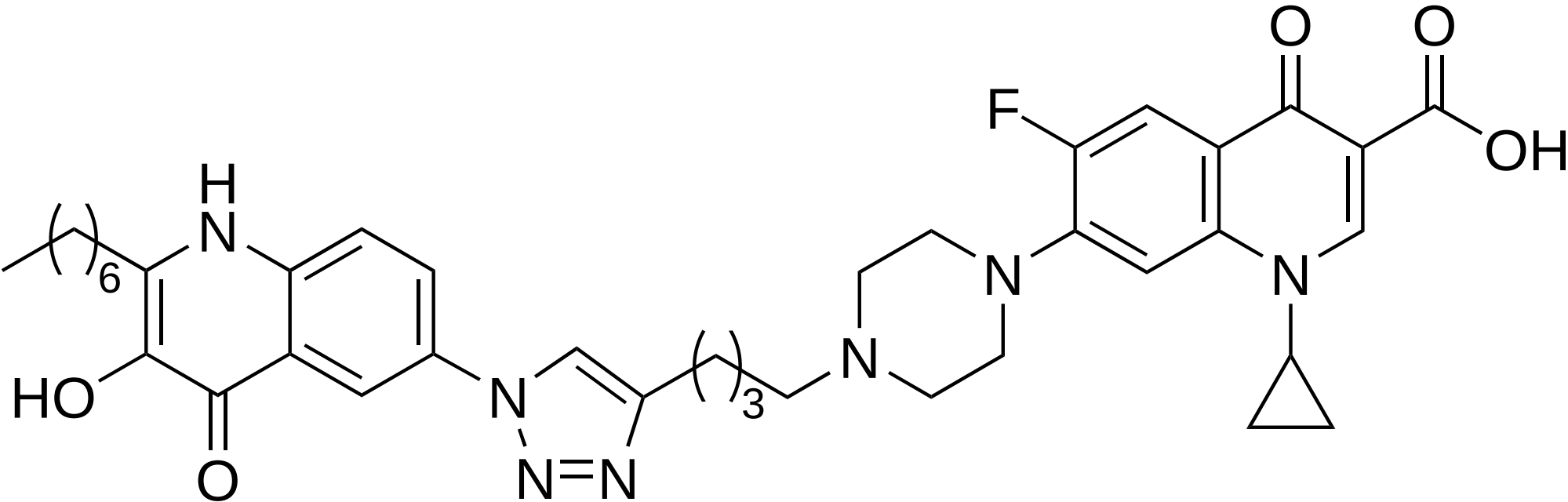

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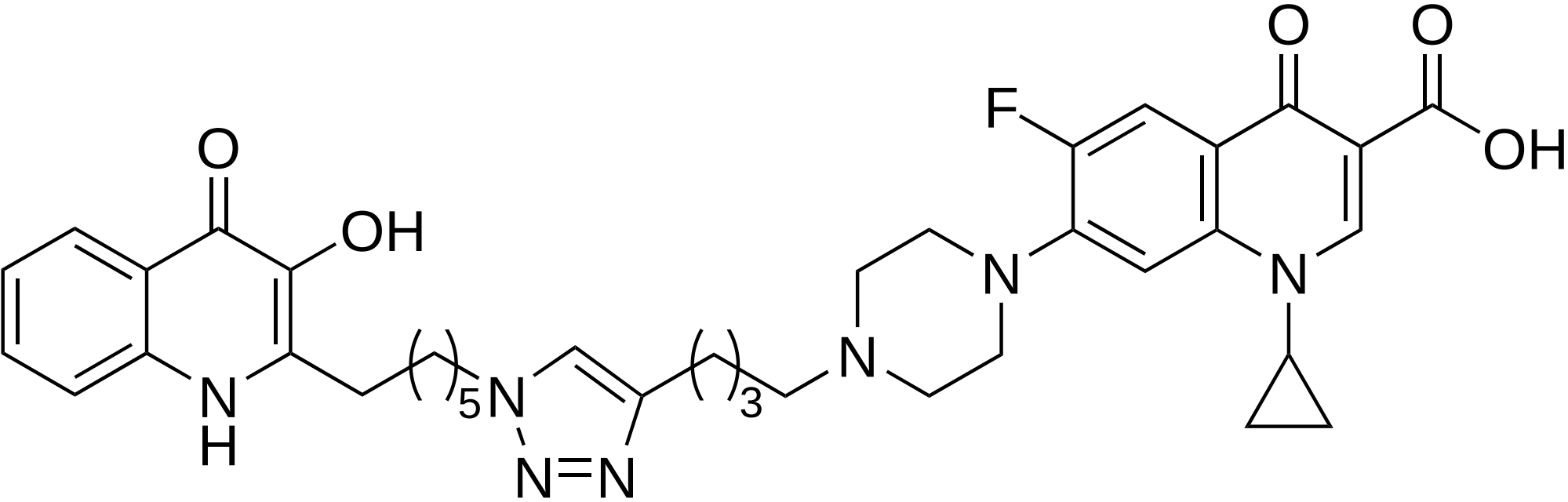
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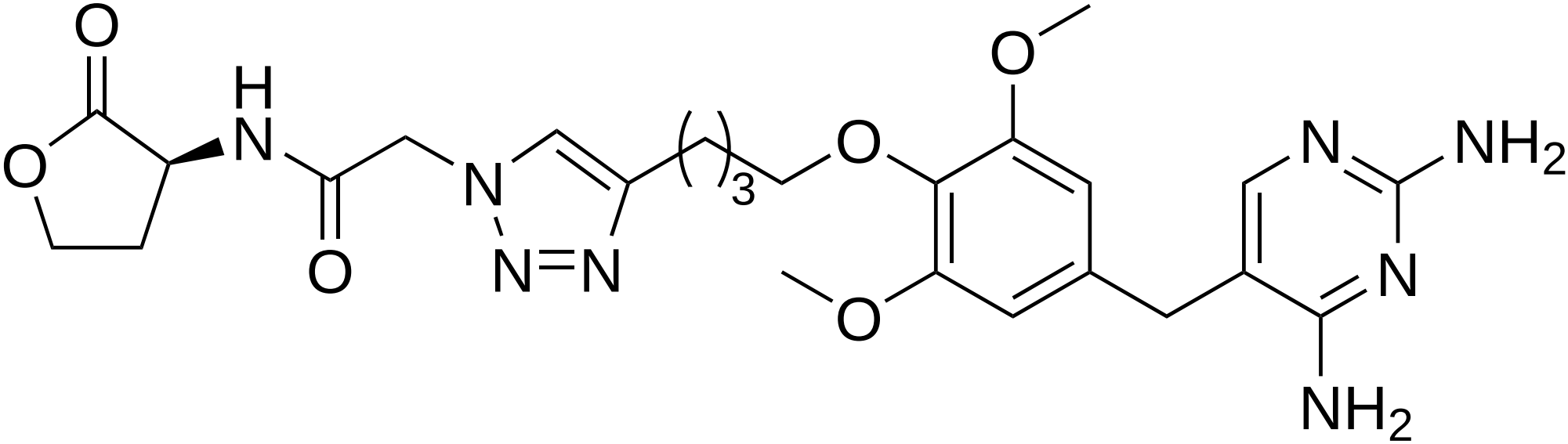

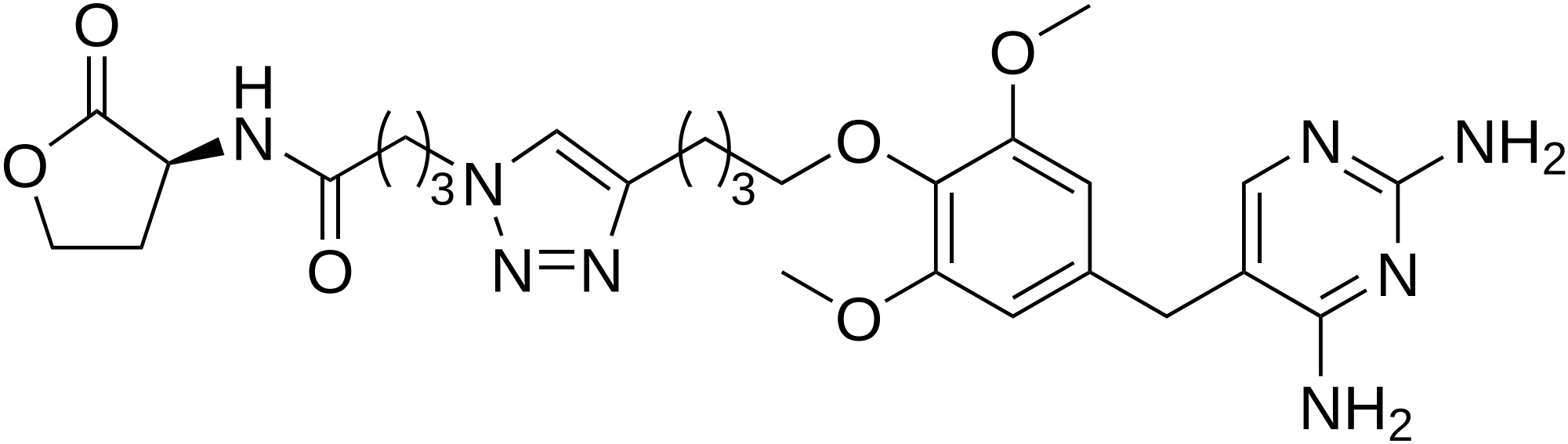

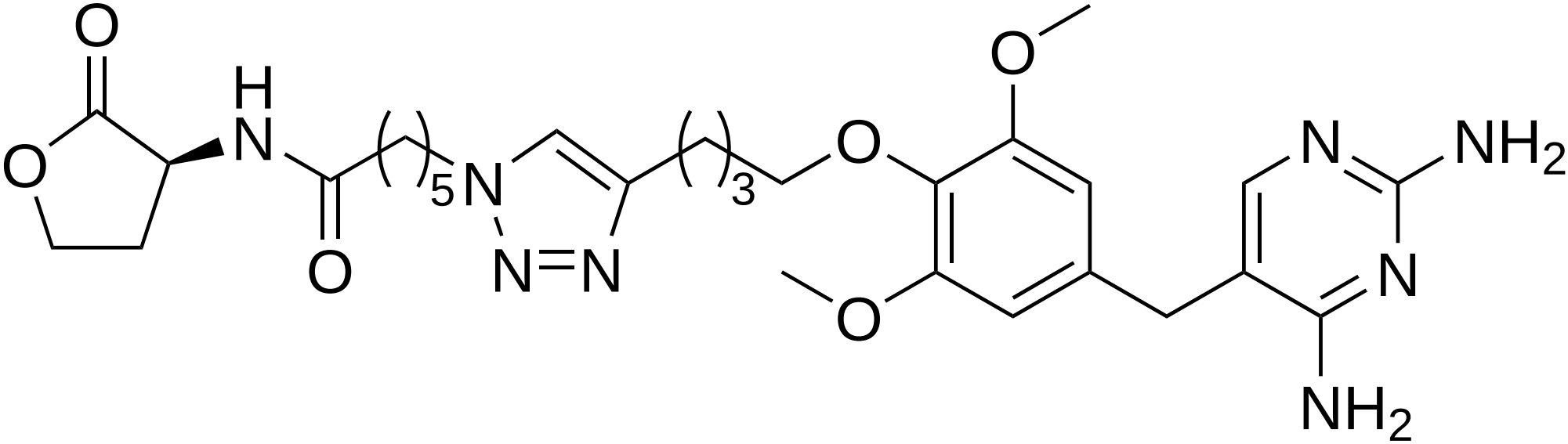

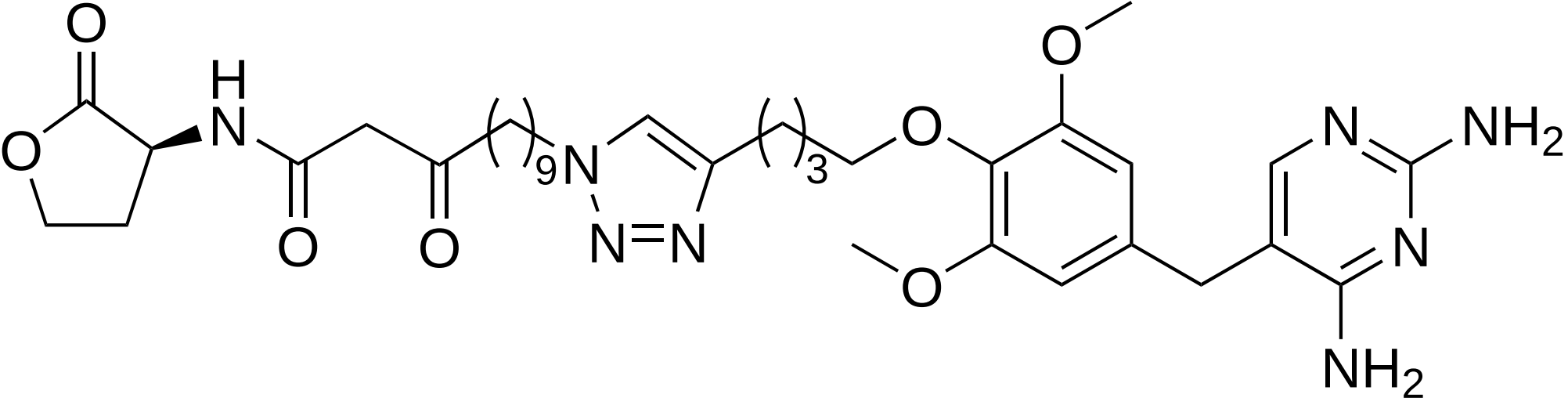

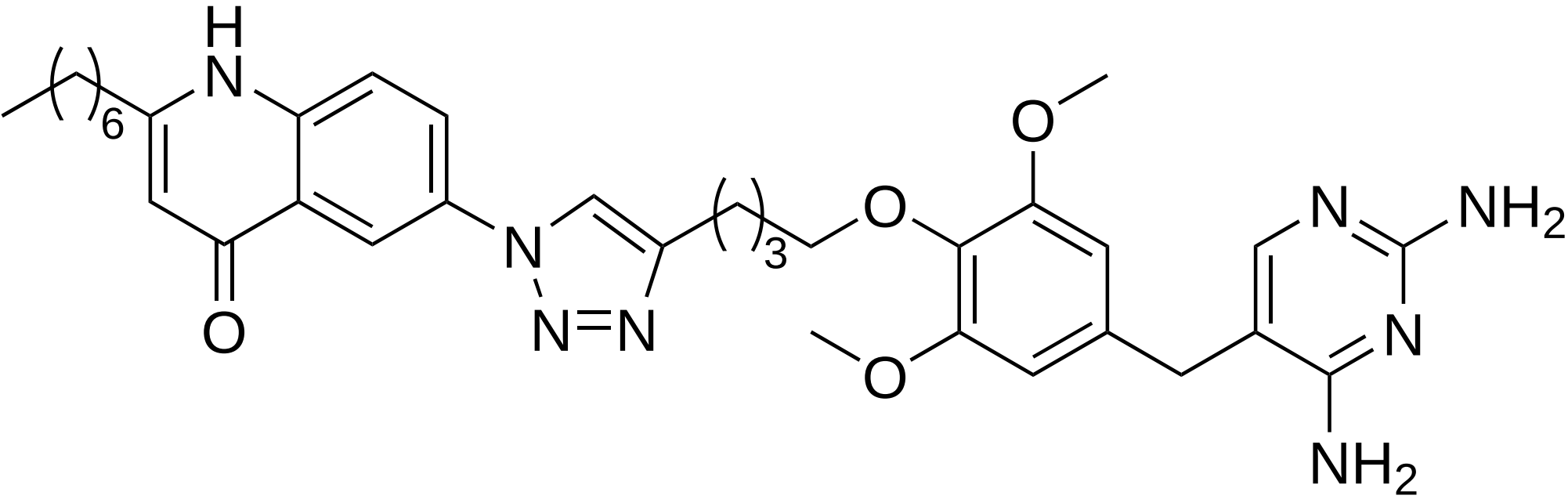

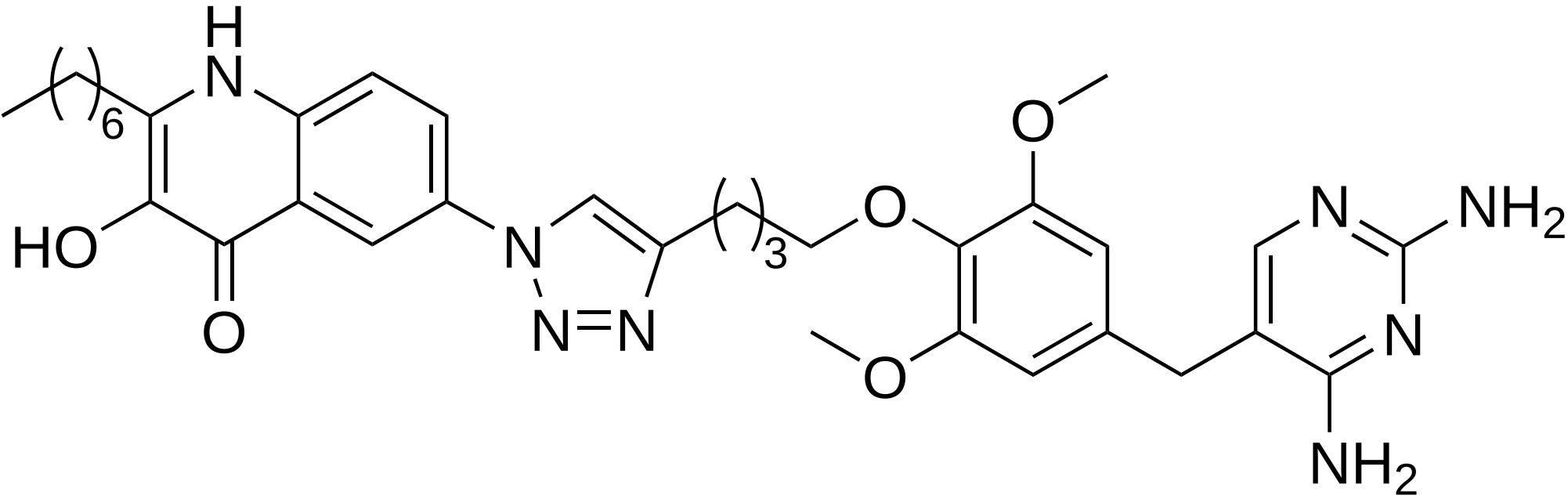

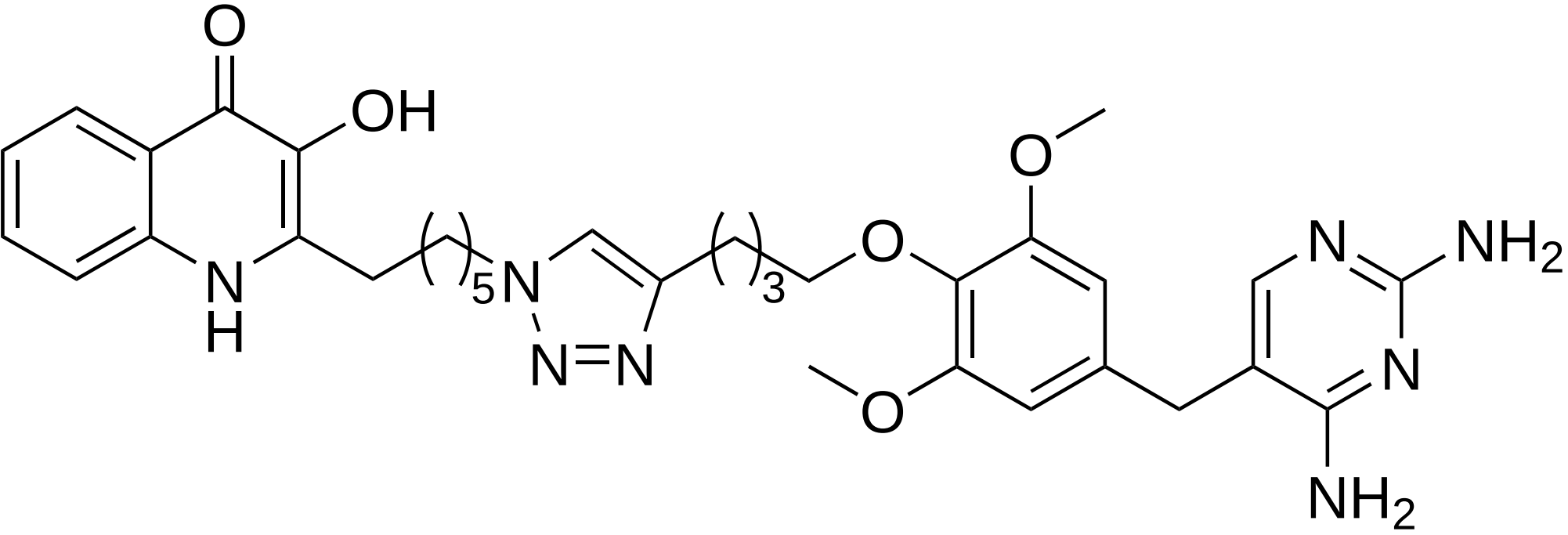
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NH2
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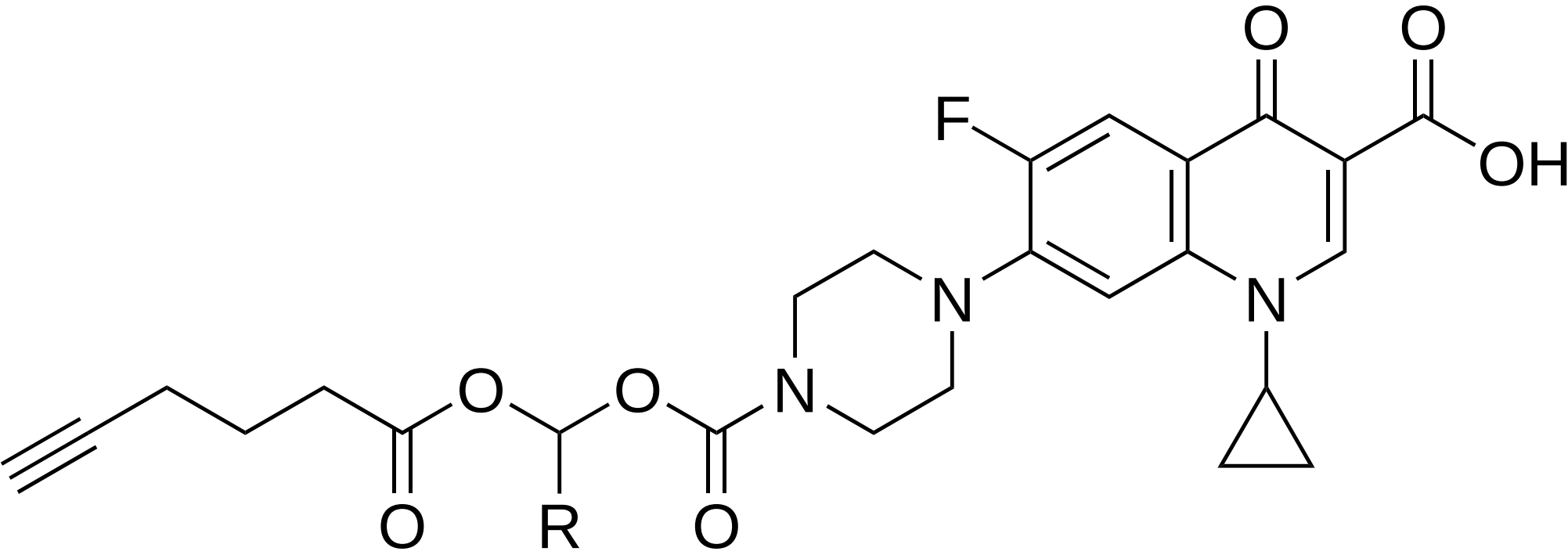
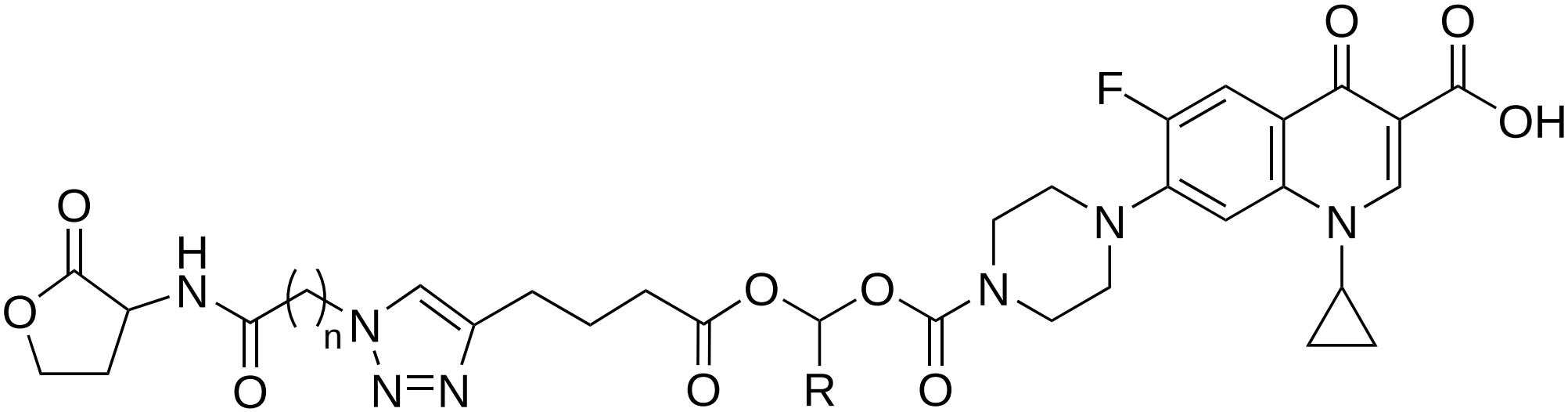
NH2

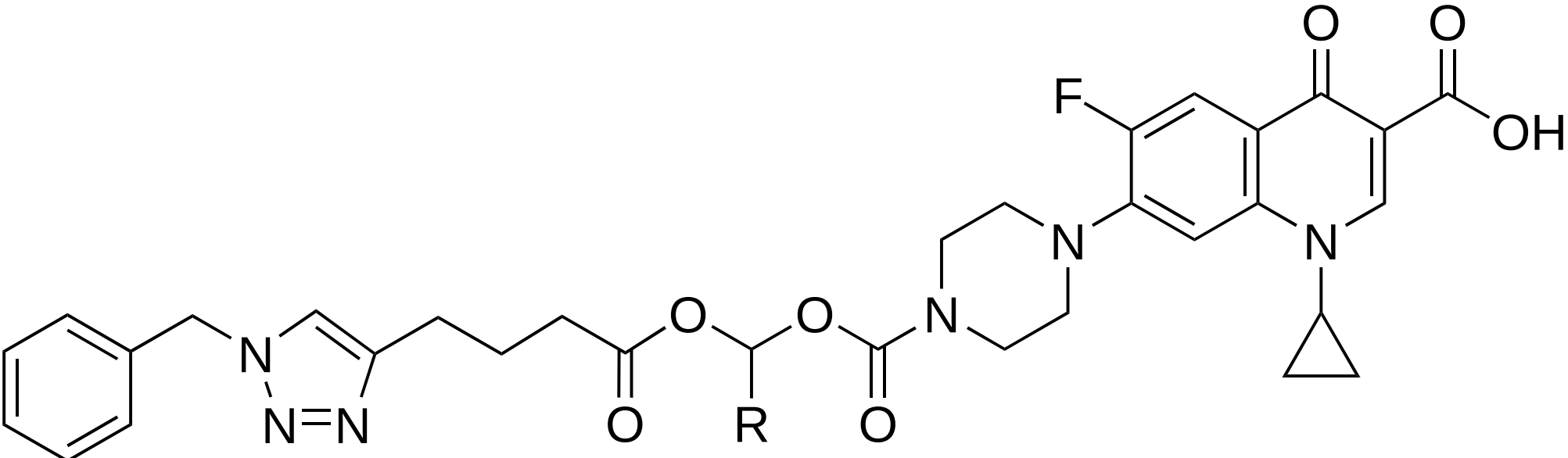


R = H **98**

R = Me **99**

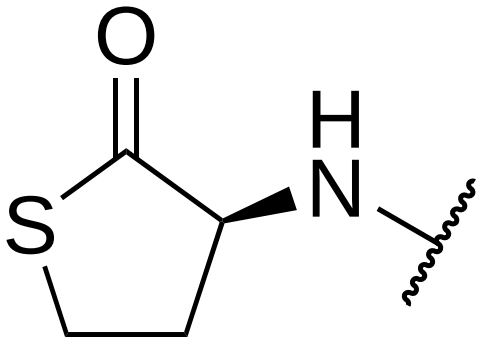


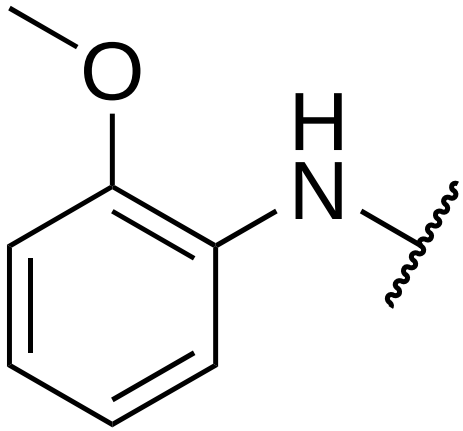
n = 1, R = H **100**
n = 3, R = H **101**
n = 5, R = H **102**
n = 1, R = Me **103**
n = 3, R = Me **104**
n = 5, R = Me **105**

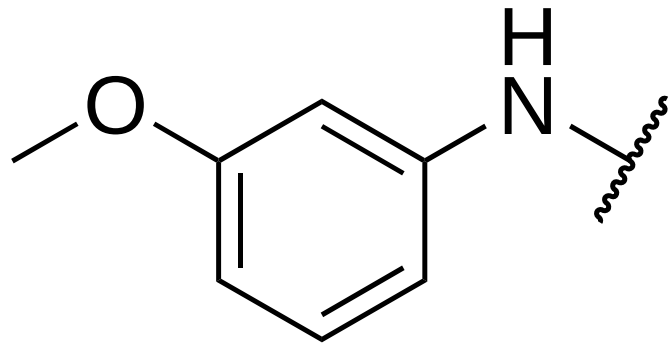


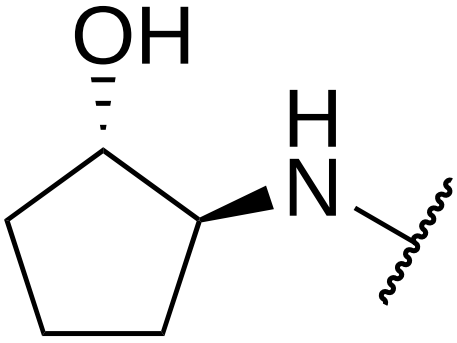
R = H **106**

R = Me **107**

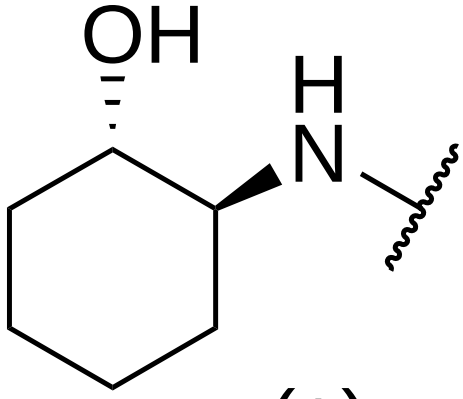








and enantiomer



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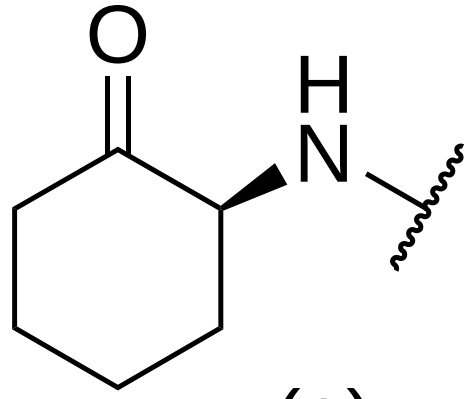

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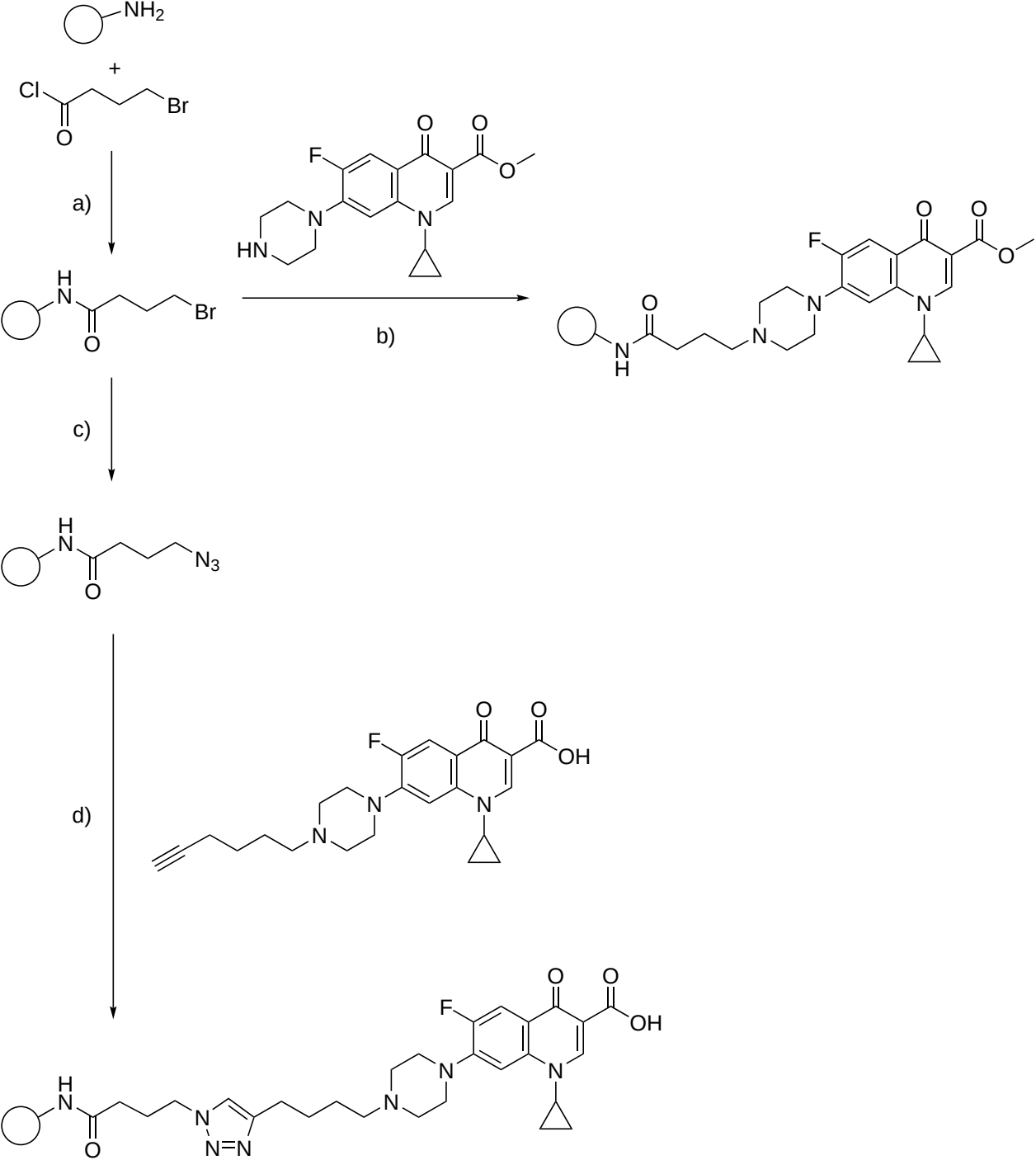

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c)
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N
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N3
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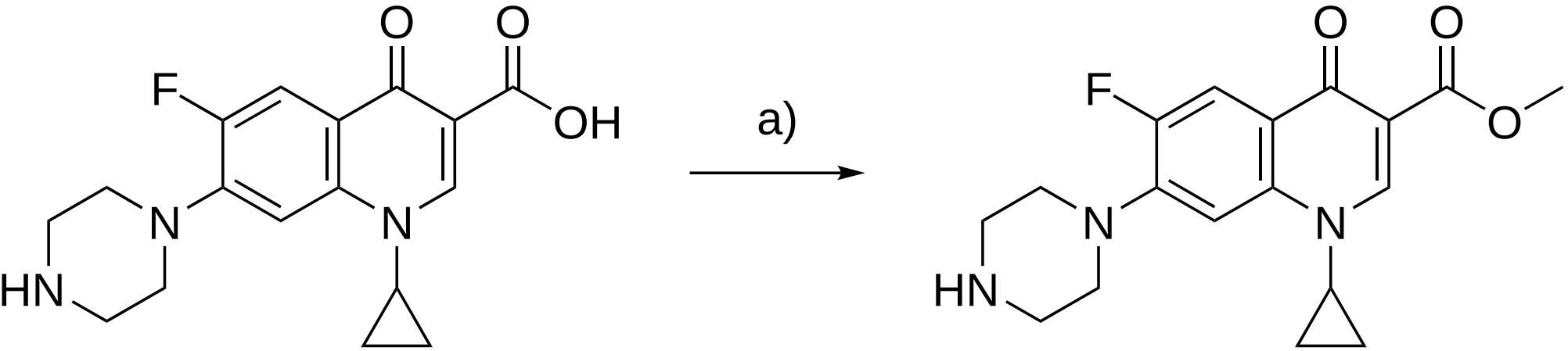
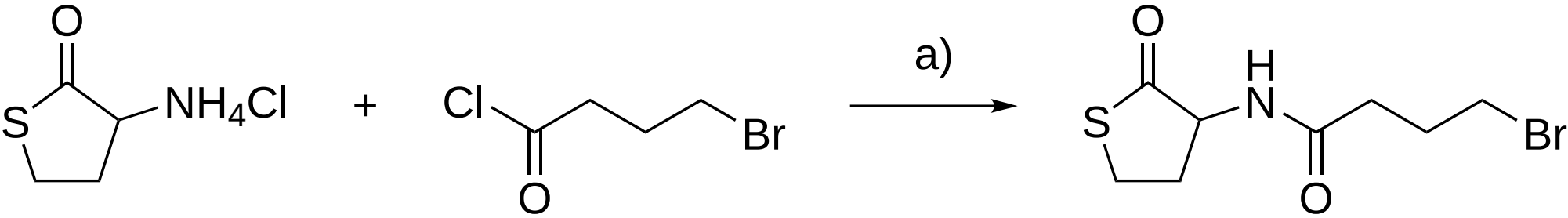
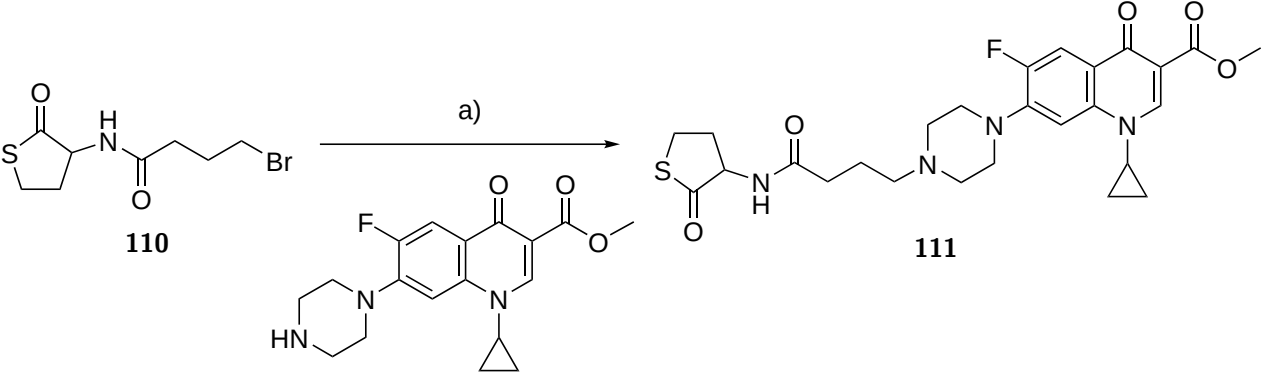


24 **108**



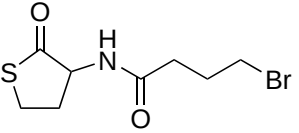
109 **64** **110**



110

108

111



110

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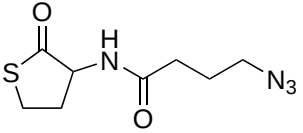
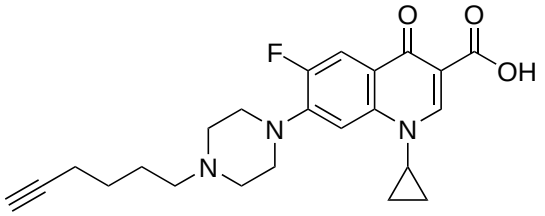
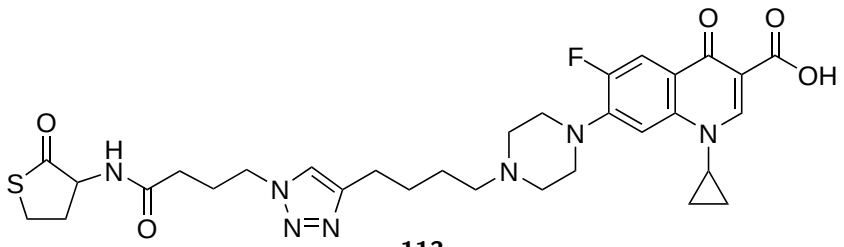


112

b)



76



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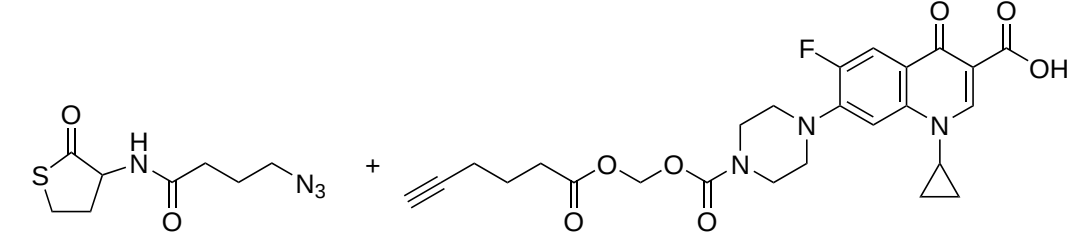
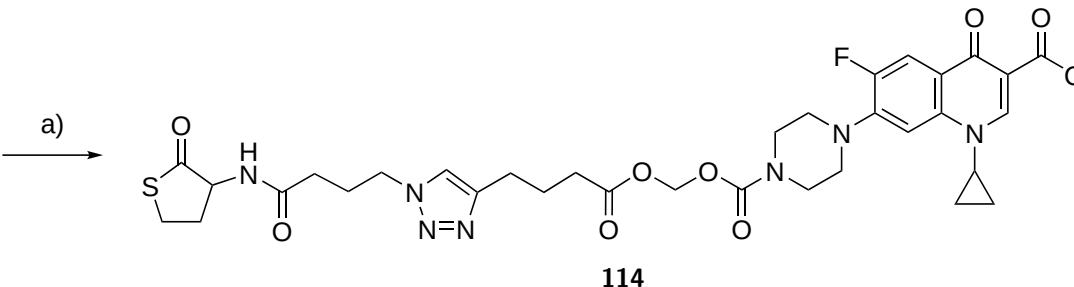


112 + **98**

a)



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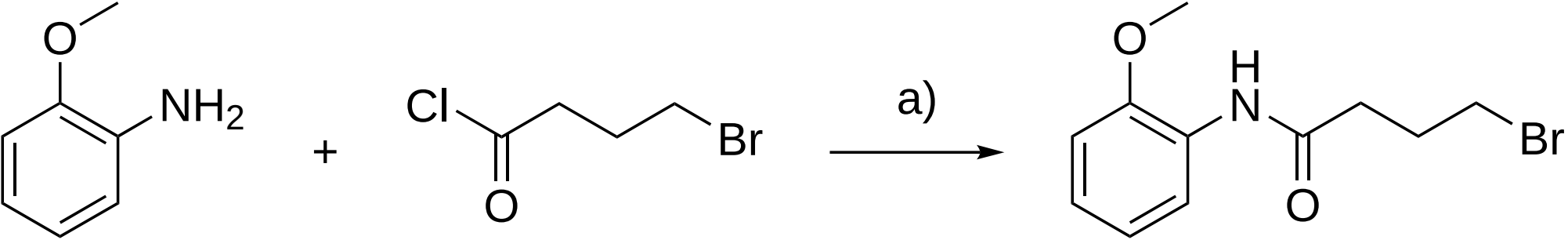

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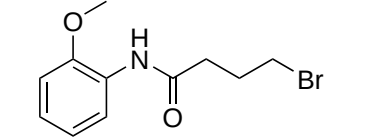

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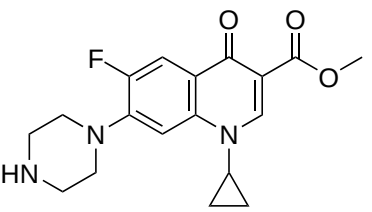

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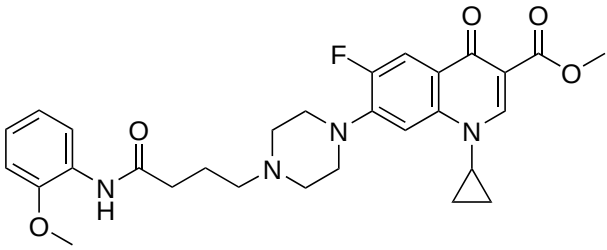

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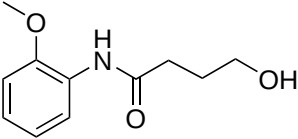
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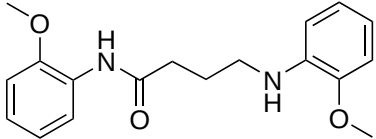
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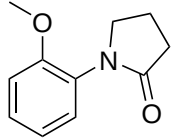
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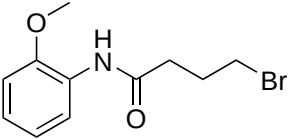

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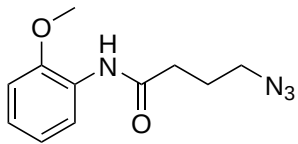

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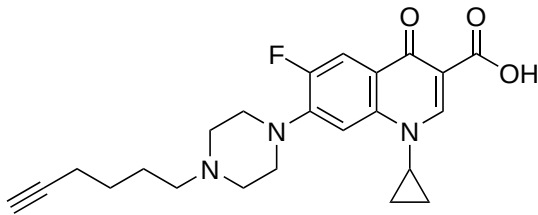

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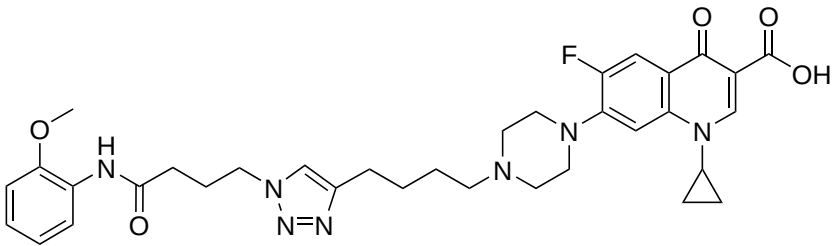

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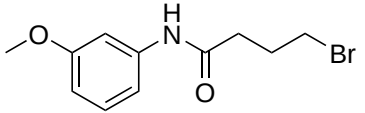

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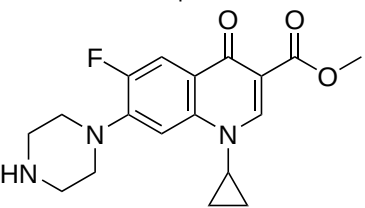

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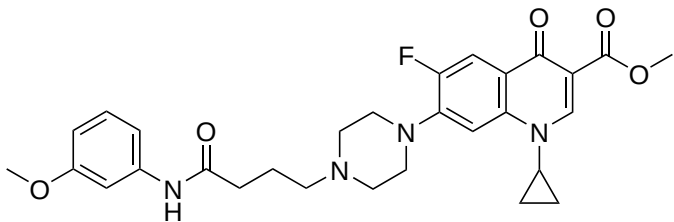

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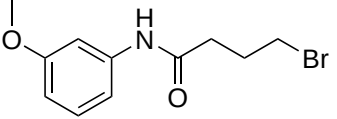

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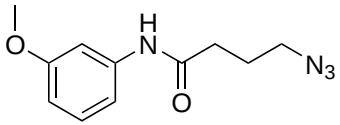

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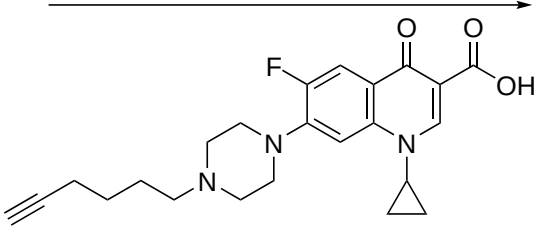

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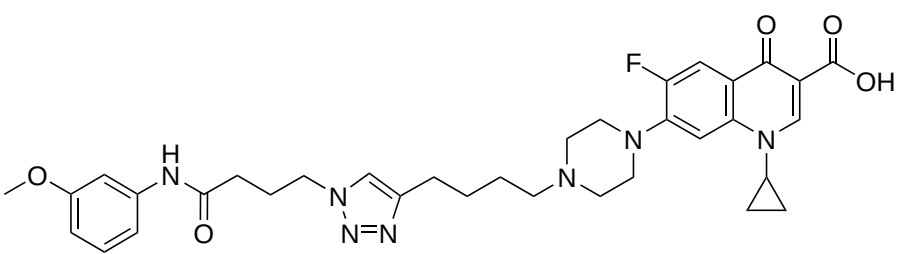

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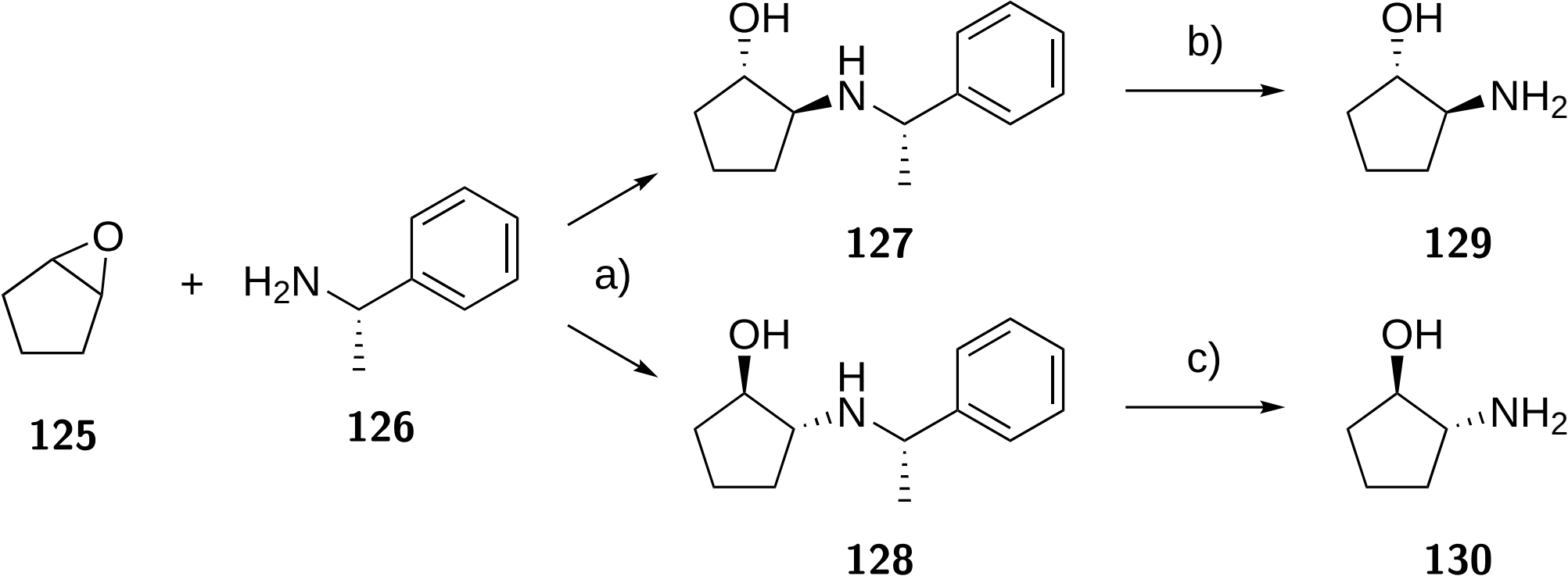
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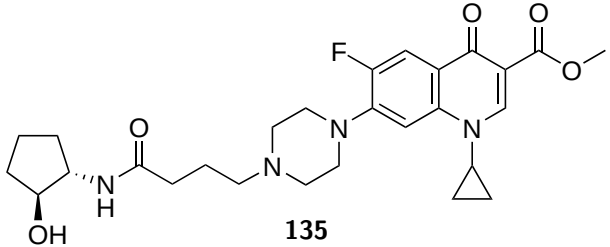

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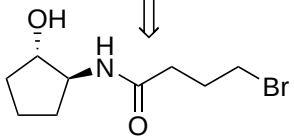

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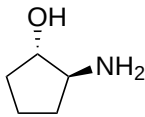

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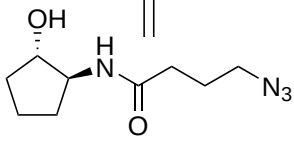

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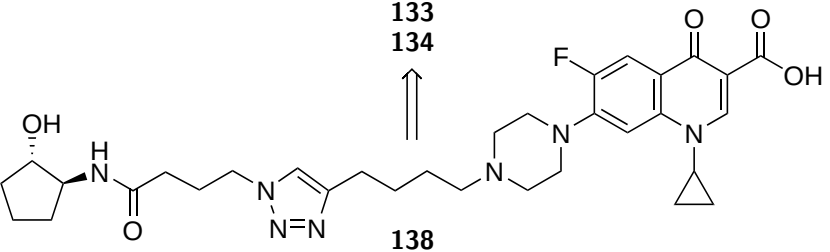

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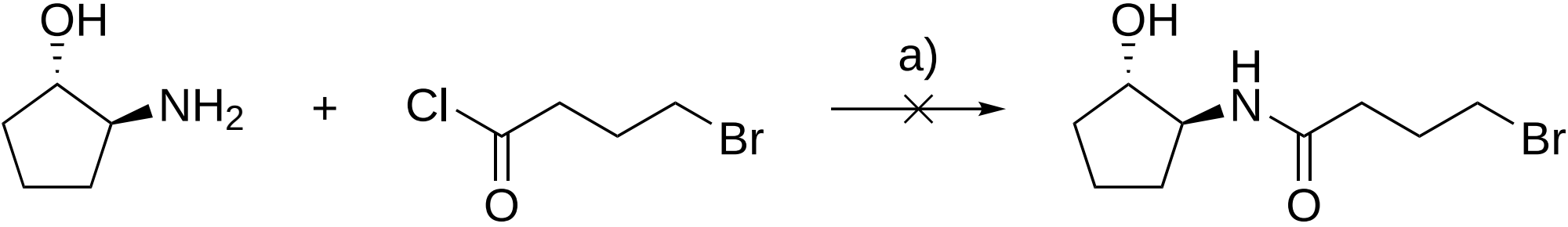
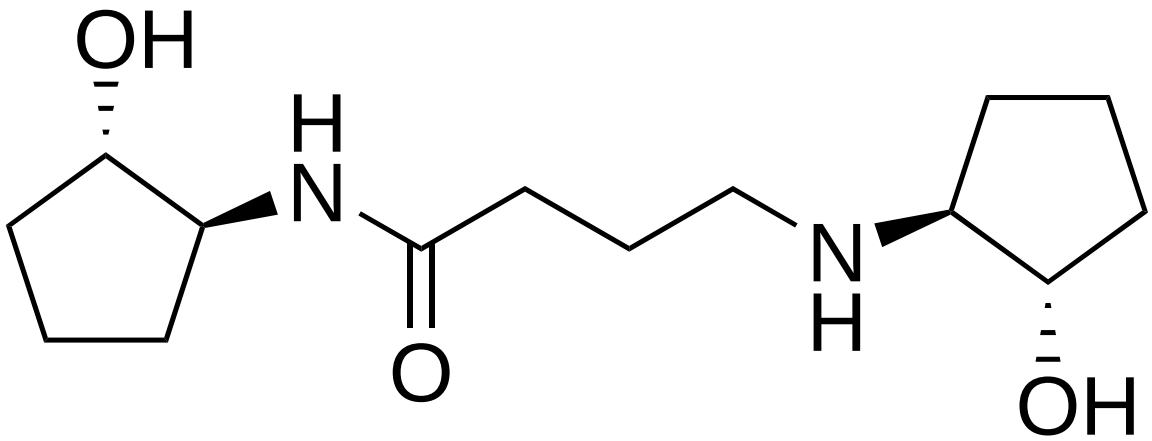


129 **64** **131**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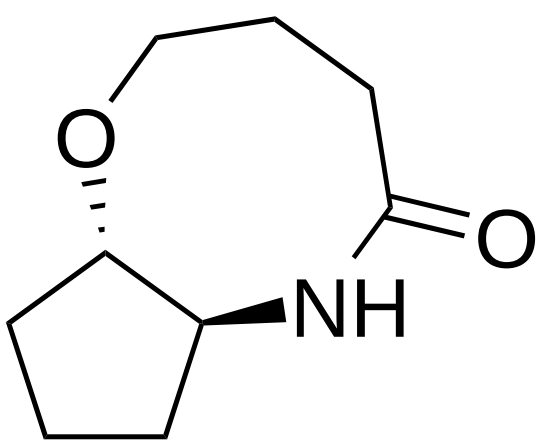
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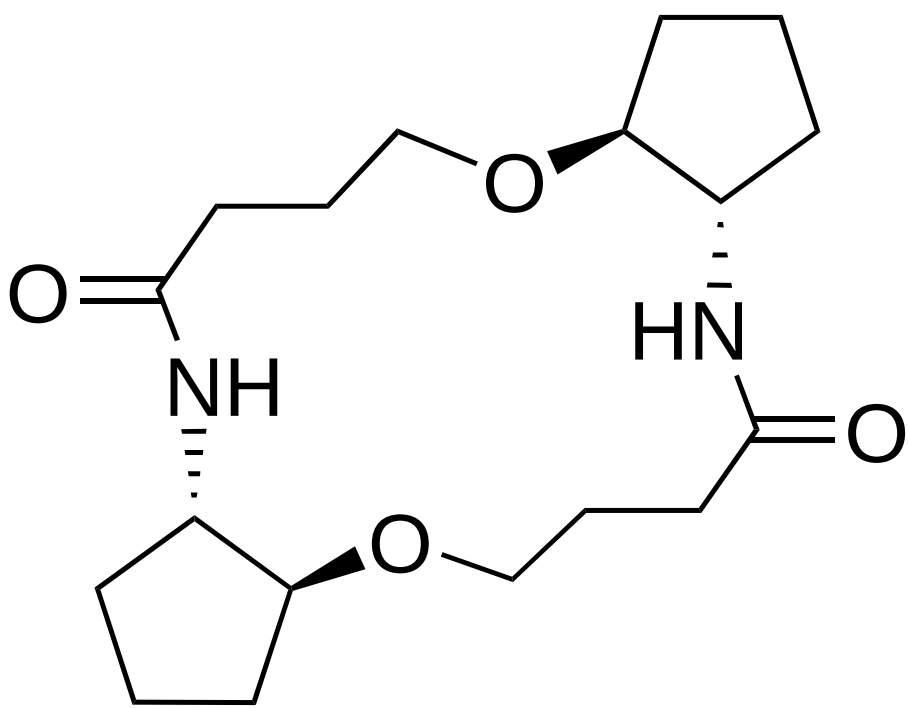
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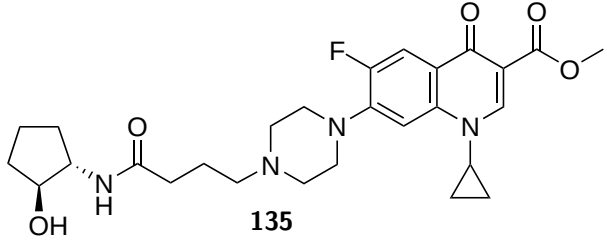

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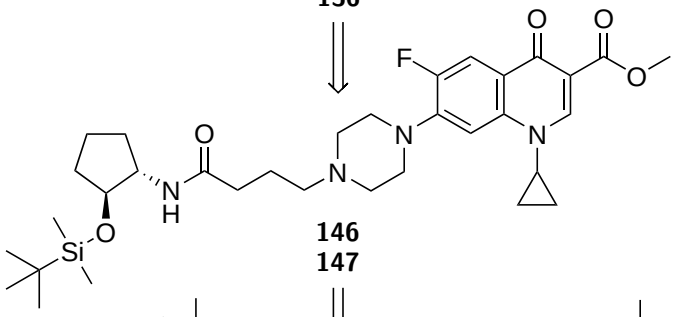

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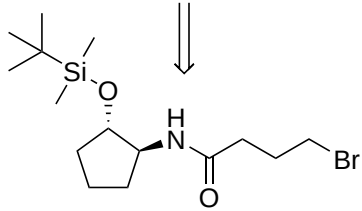

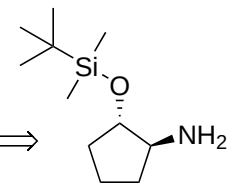

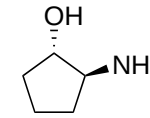

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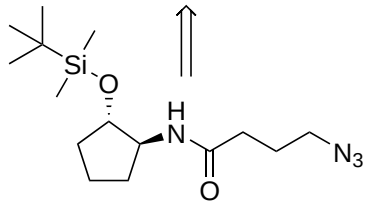

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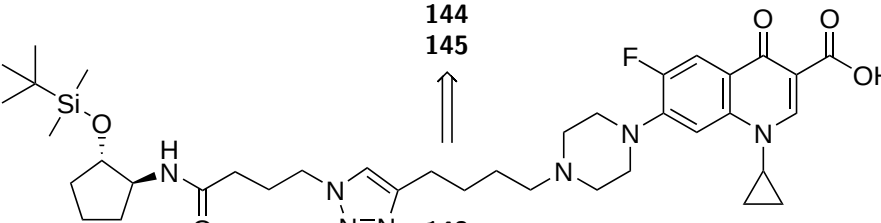

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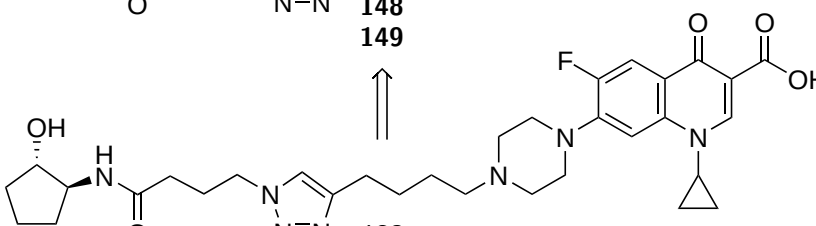

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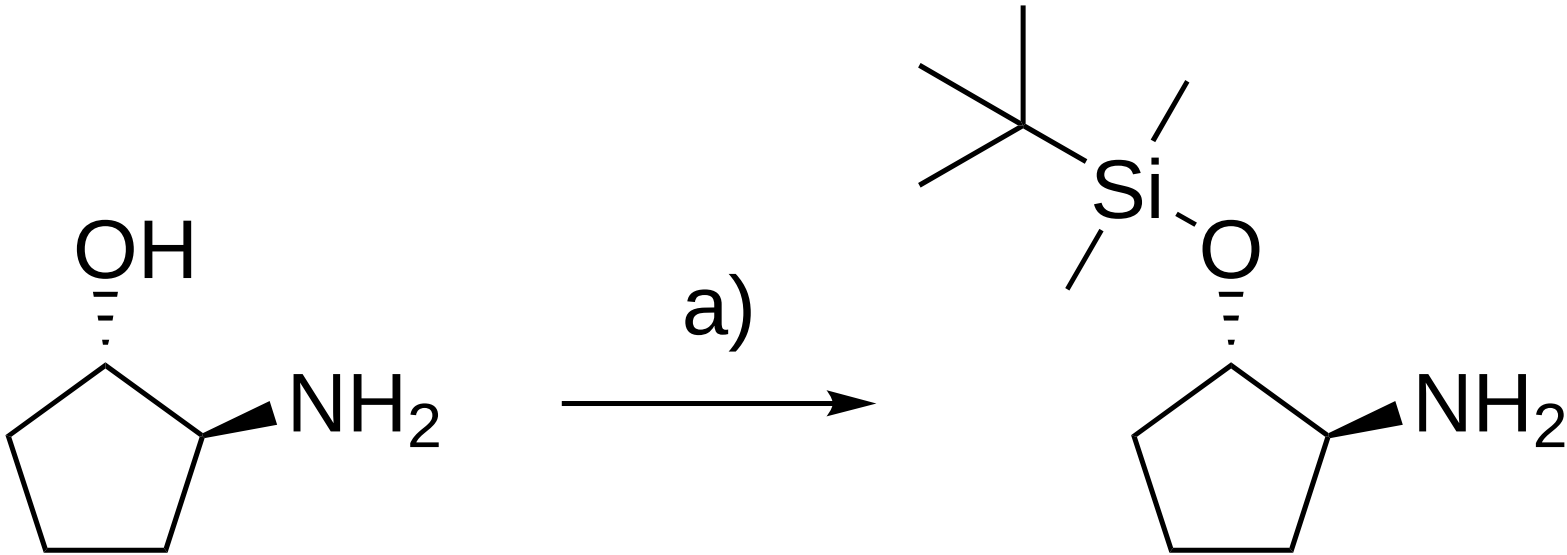

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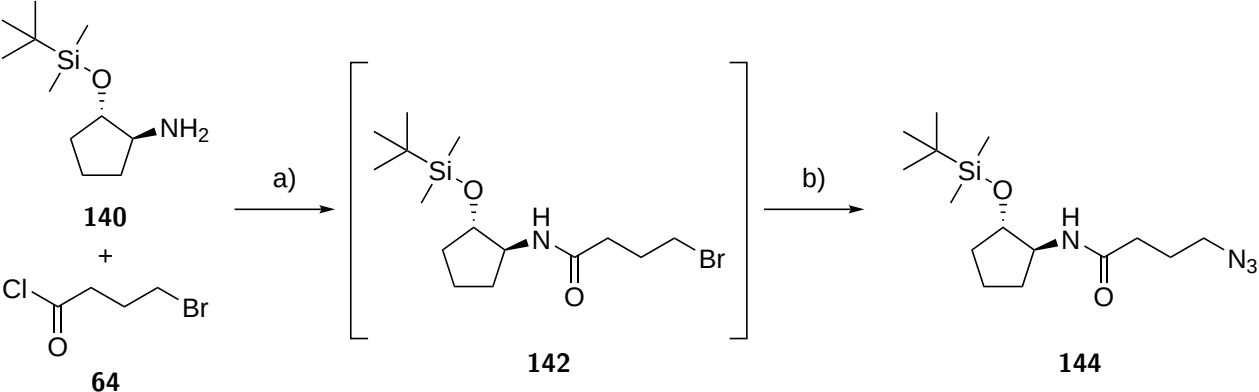
140 **64** **142**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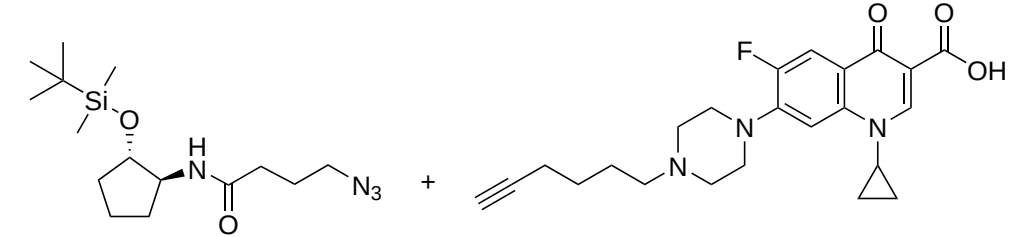

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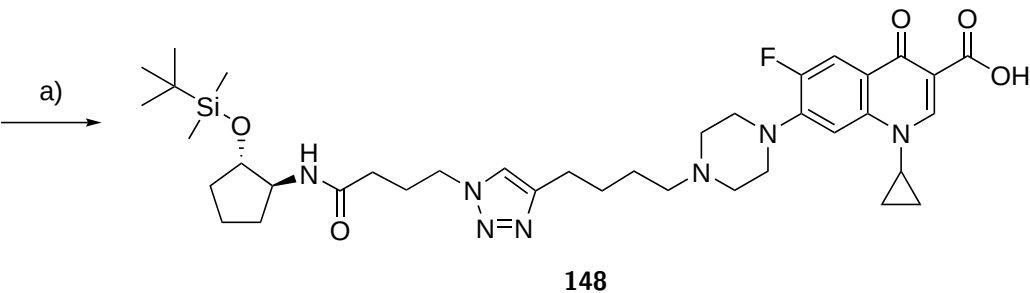

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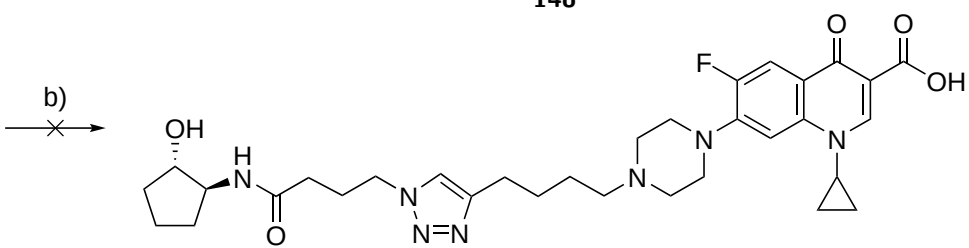

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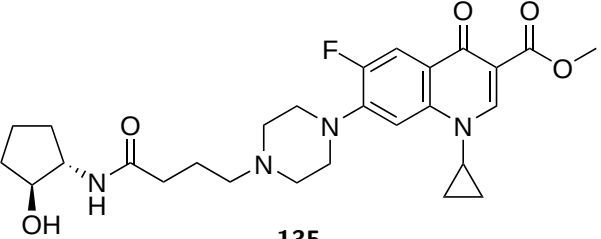

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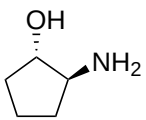

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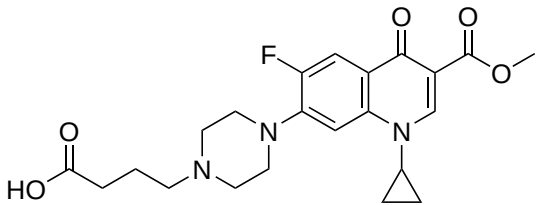

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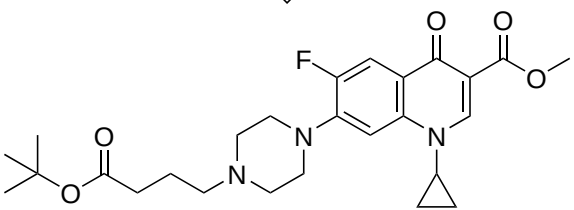

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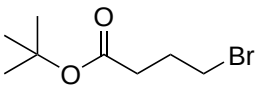

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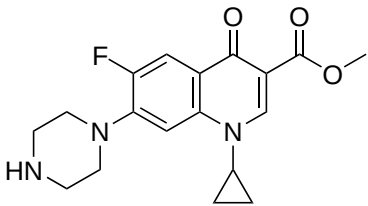

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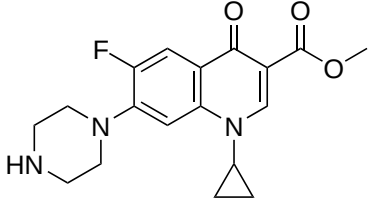

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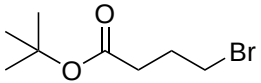

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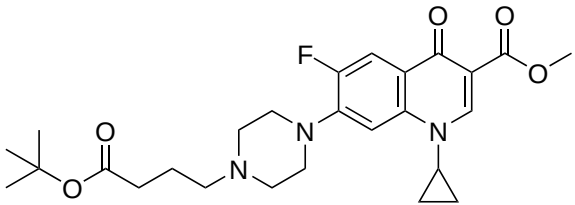

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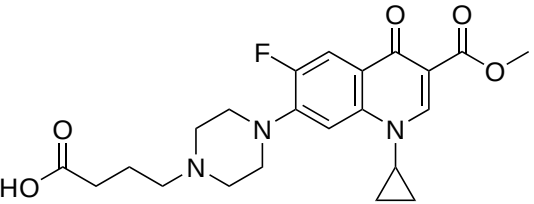

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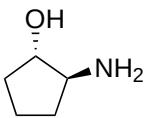

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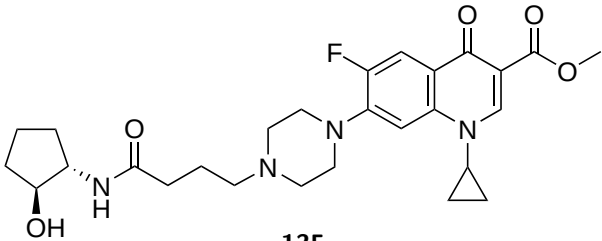

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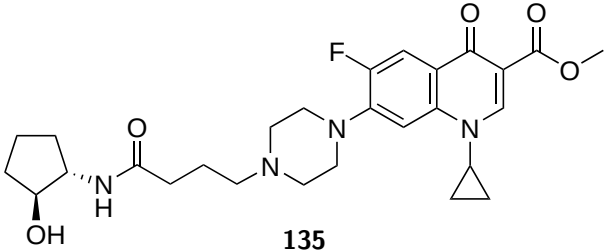

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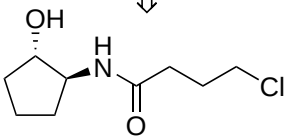

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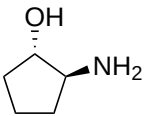

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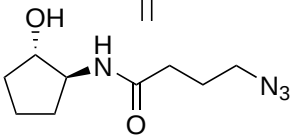

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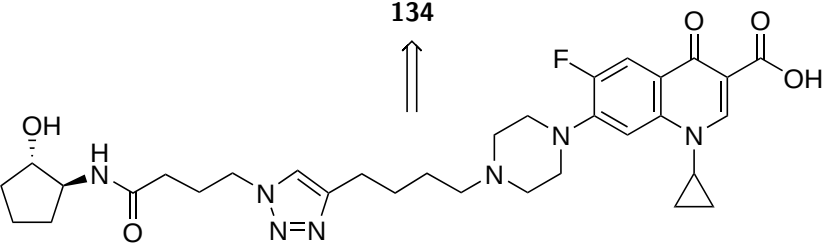

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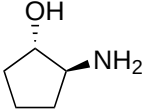

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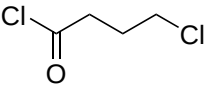

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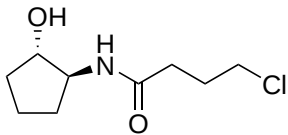

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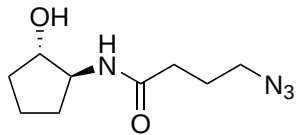

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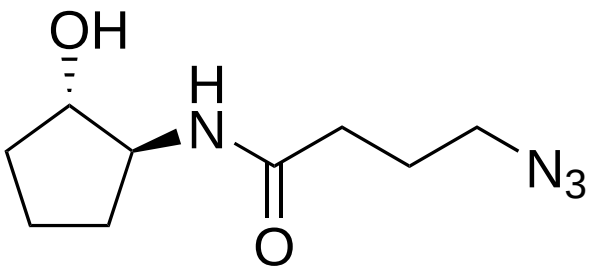

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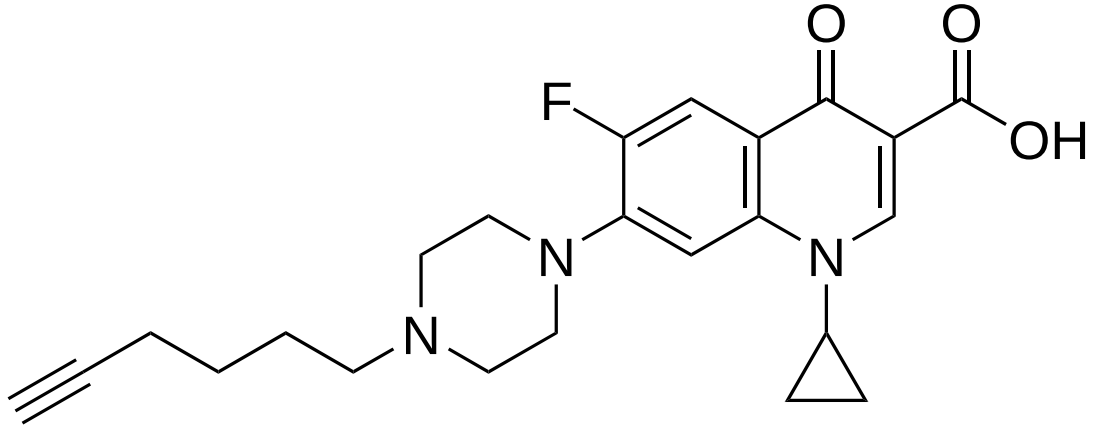

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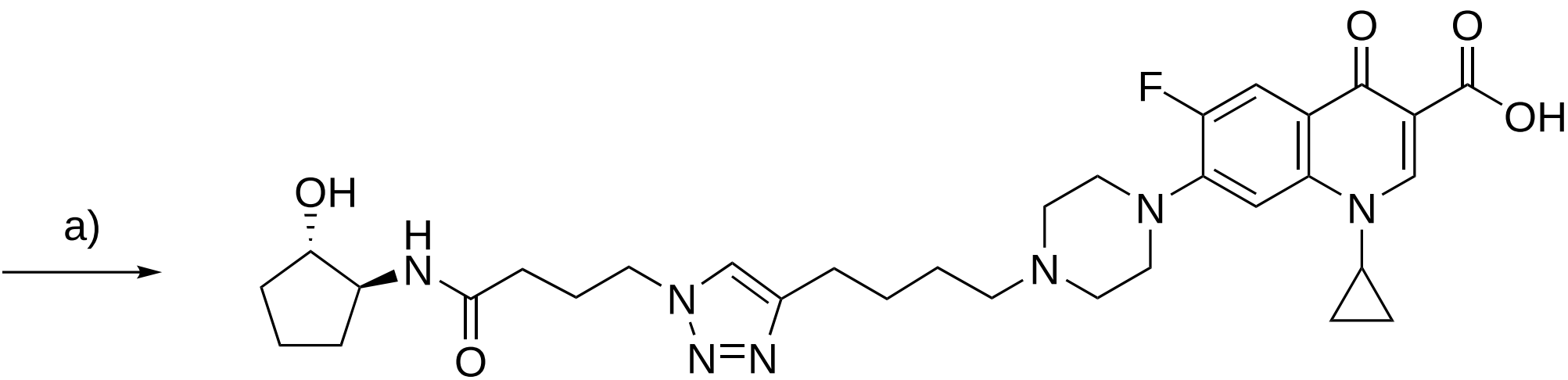

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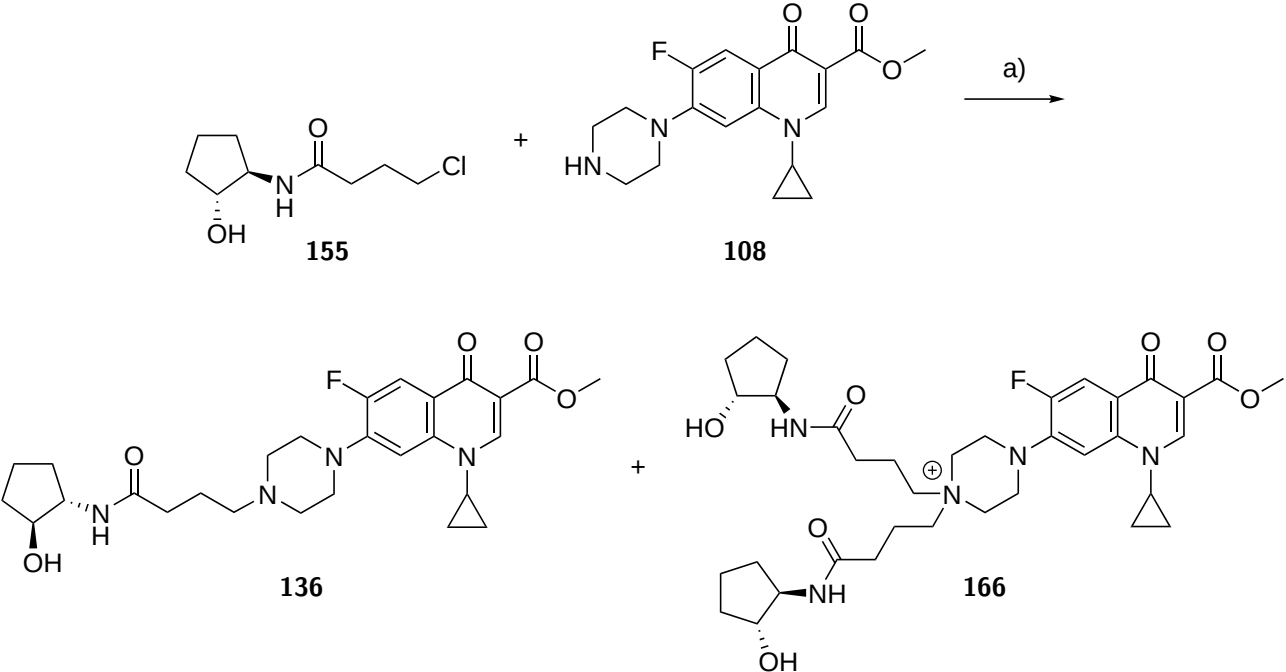
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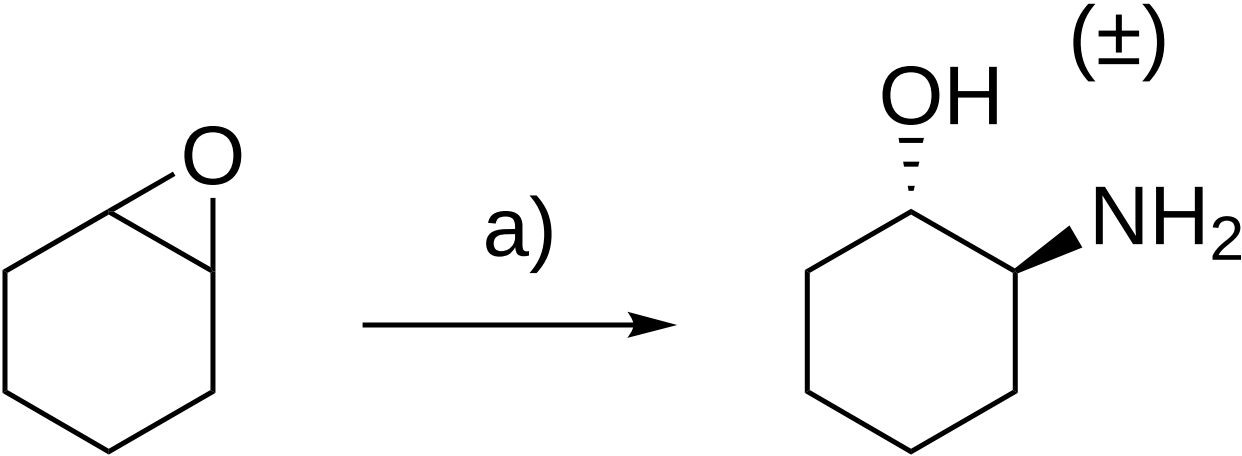

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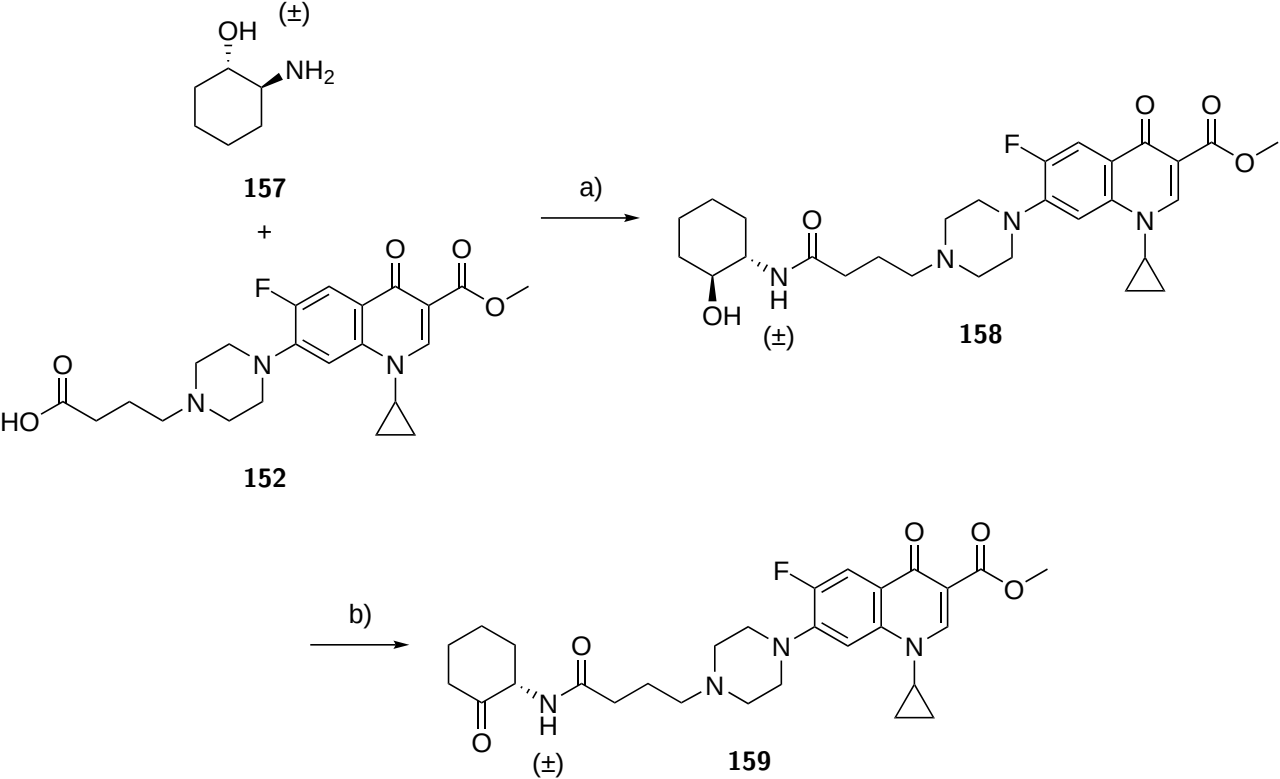
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a)
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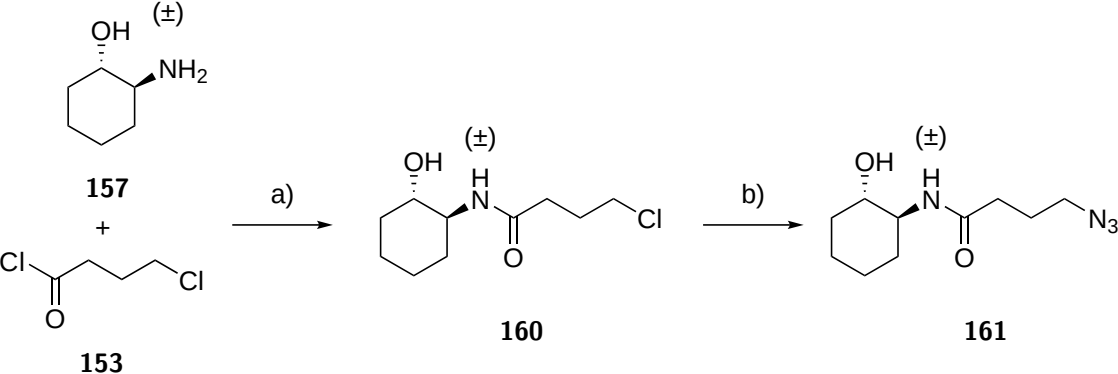
(±)
159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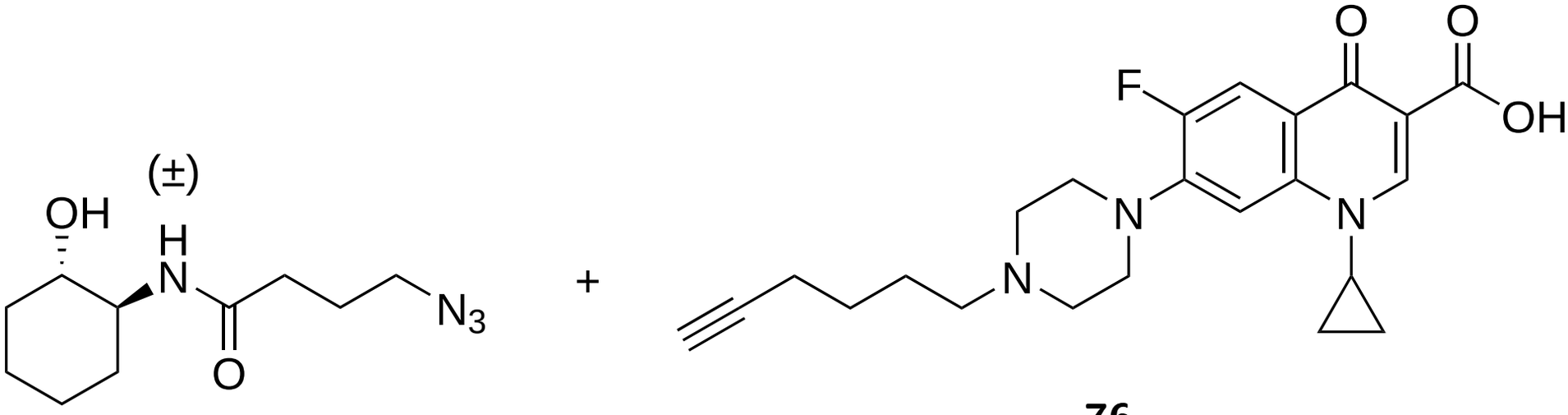

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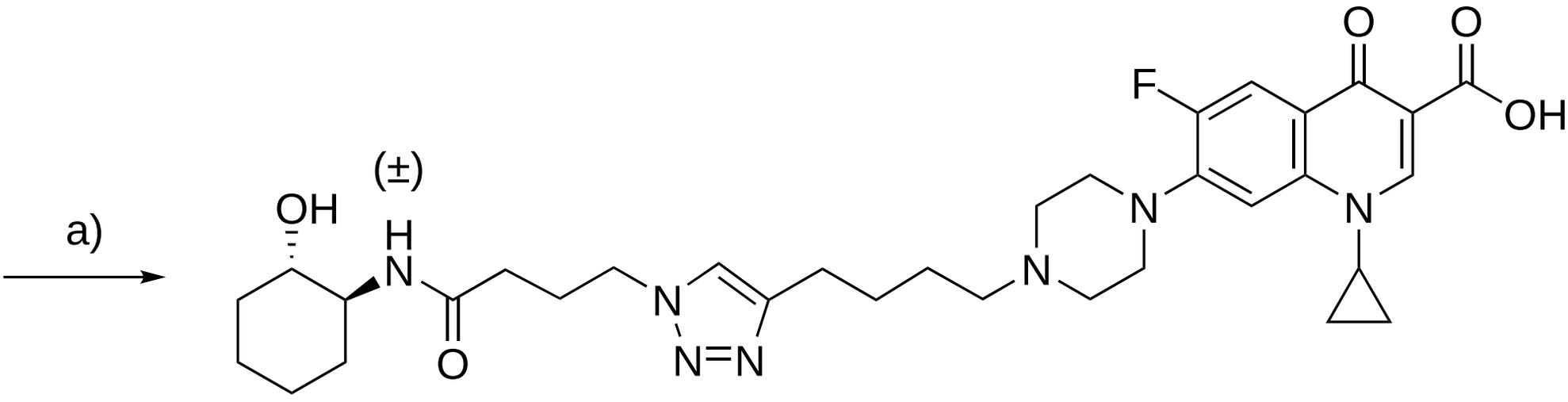

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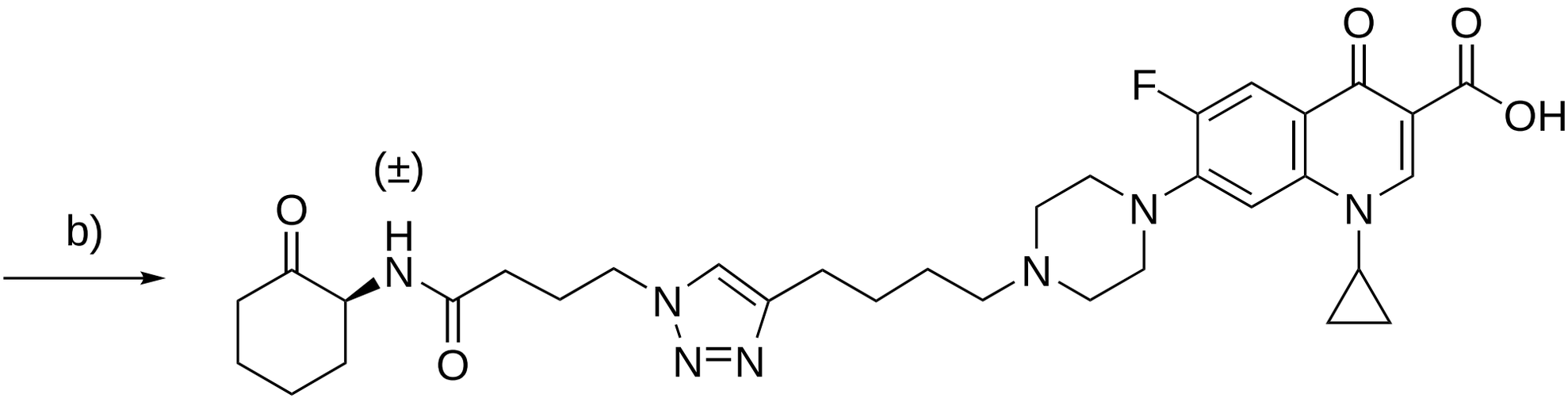

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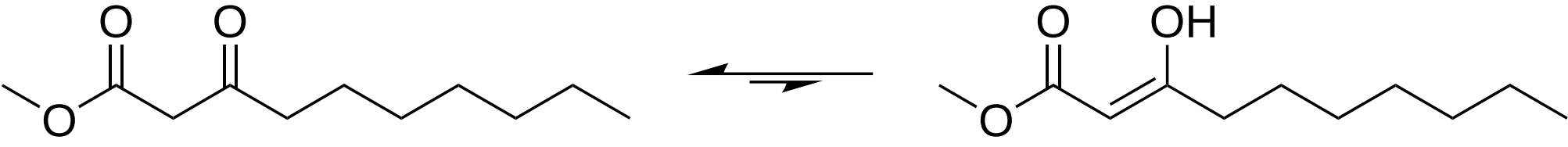

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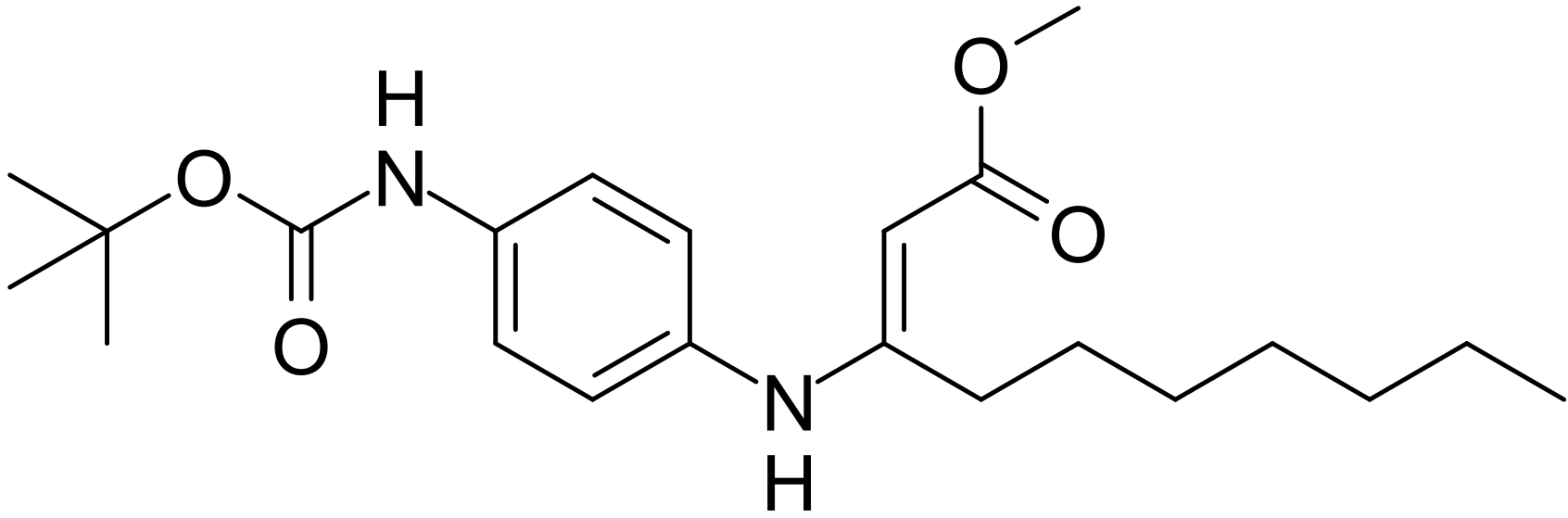
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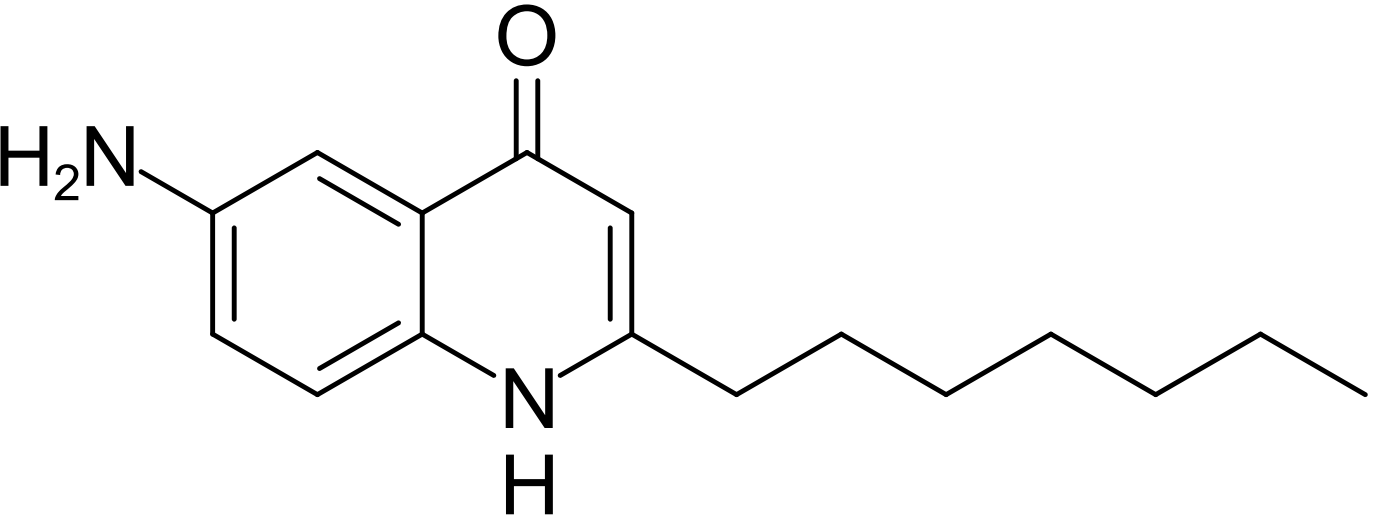
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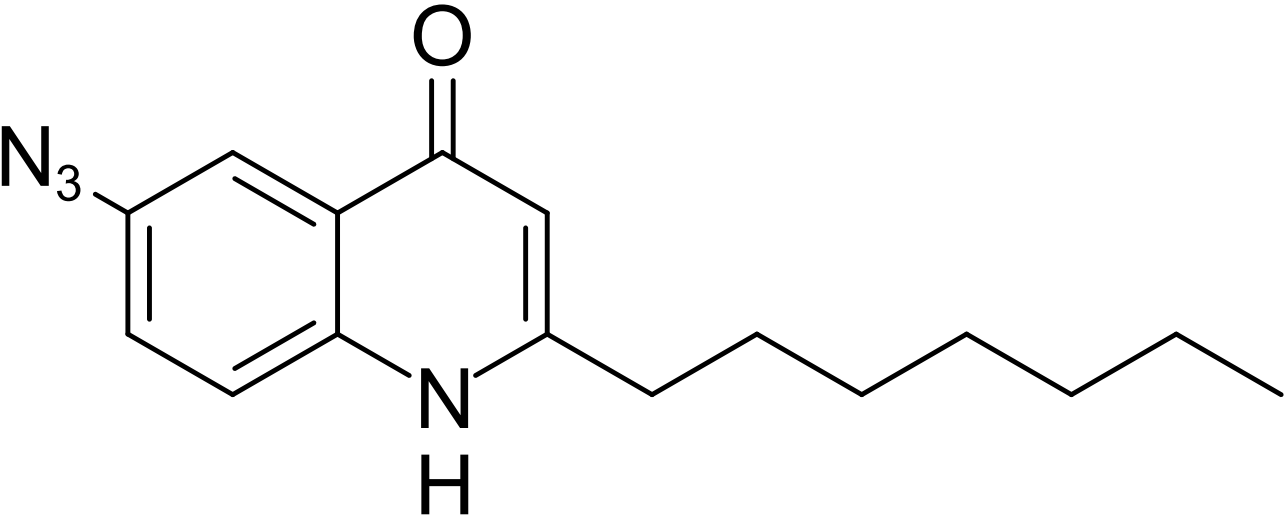
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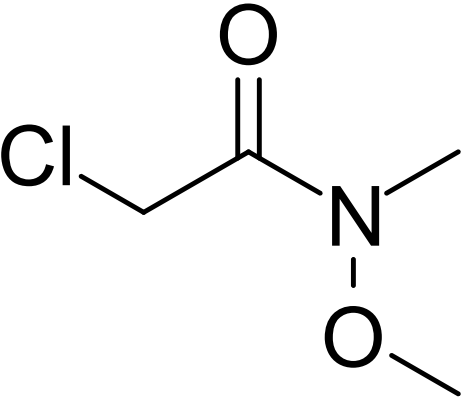
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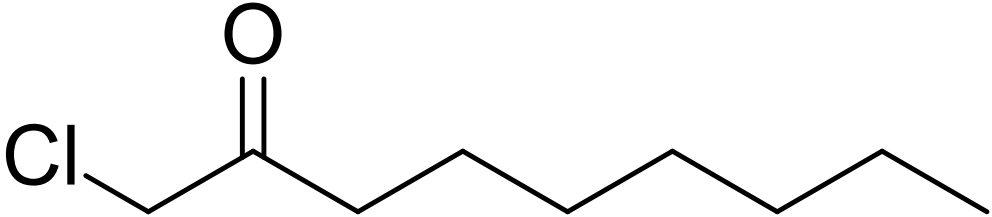
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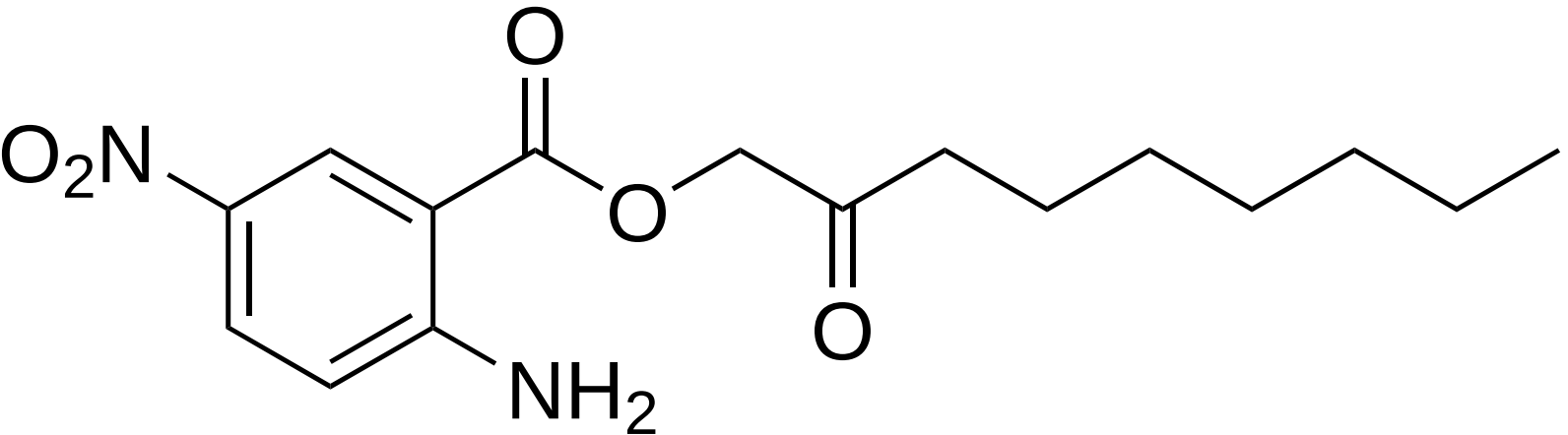
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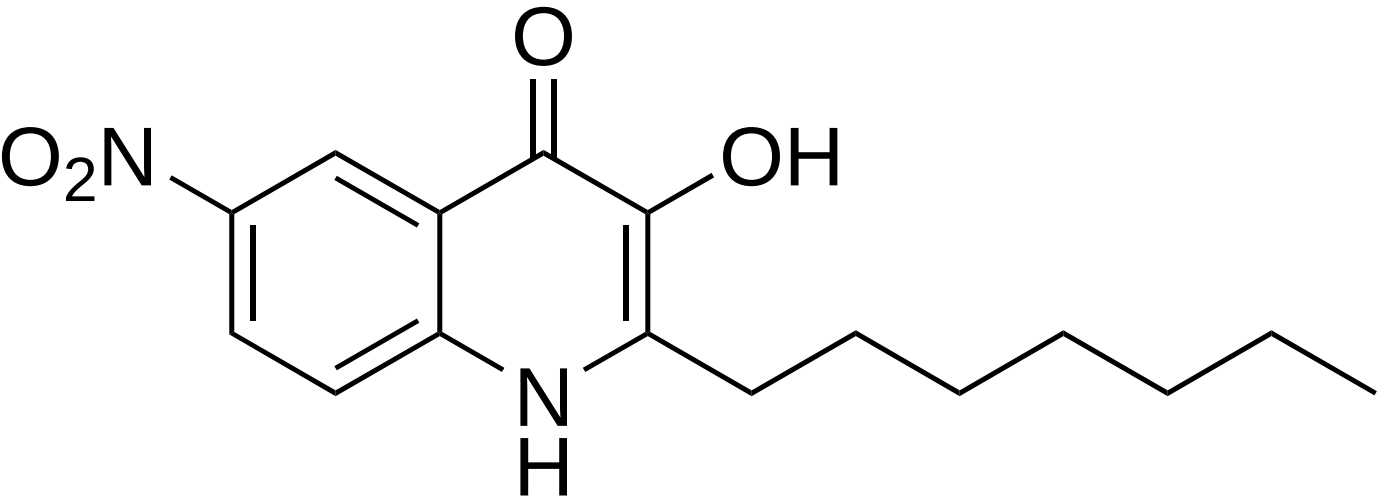
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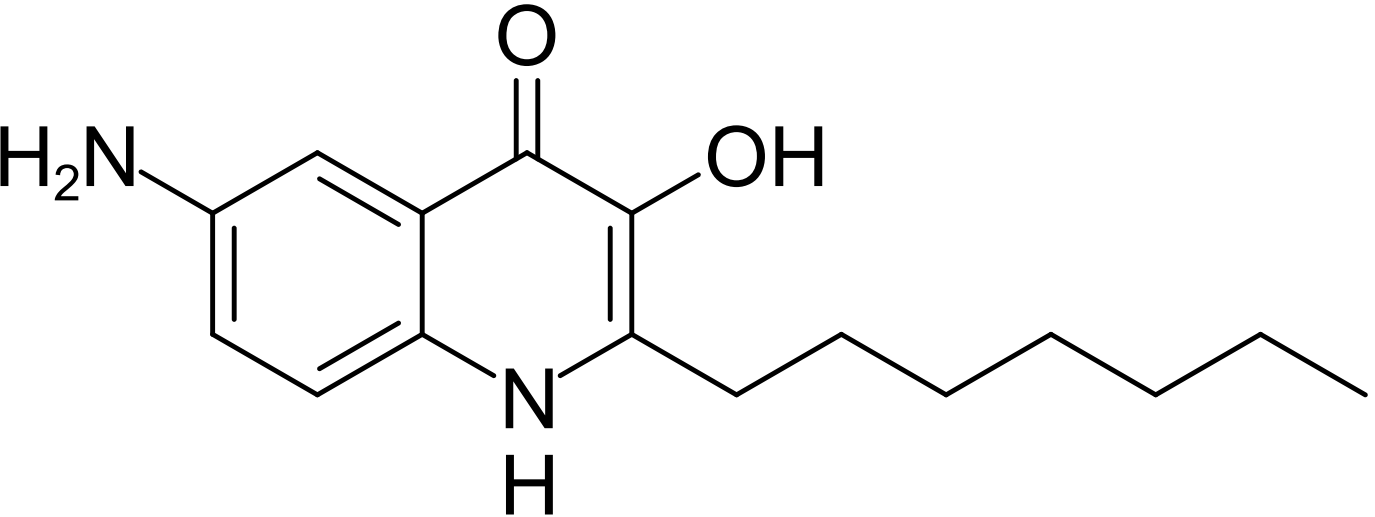
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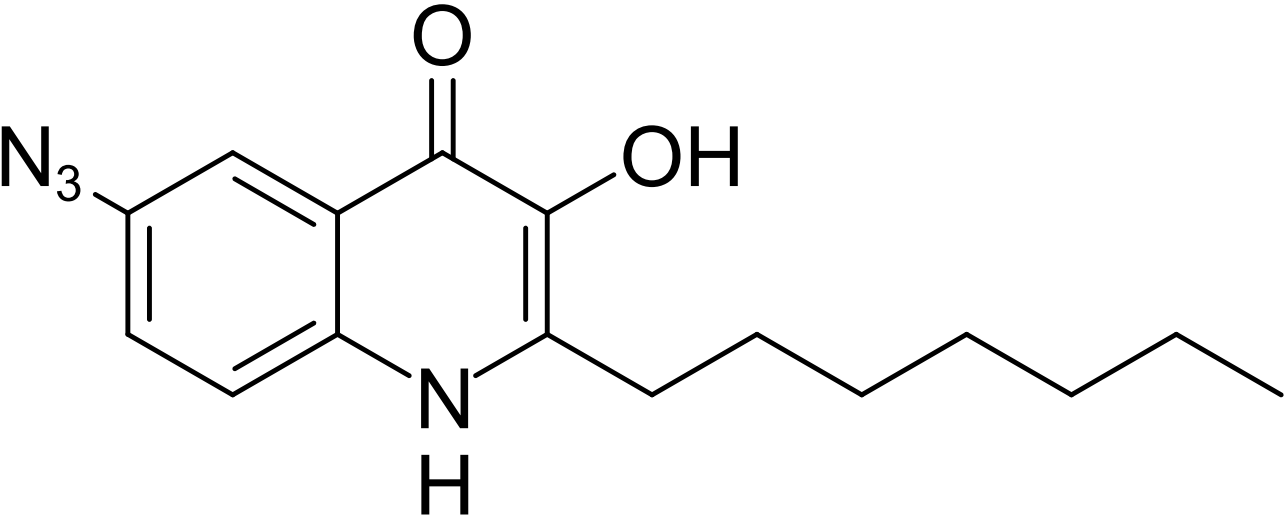
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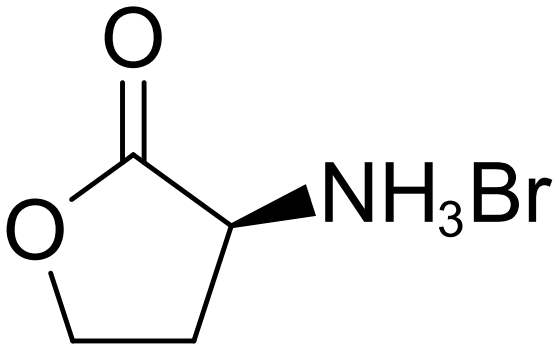
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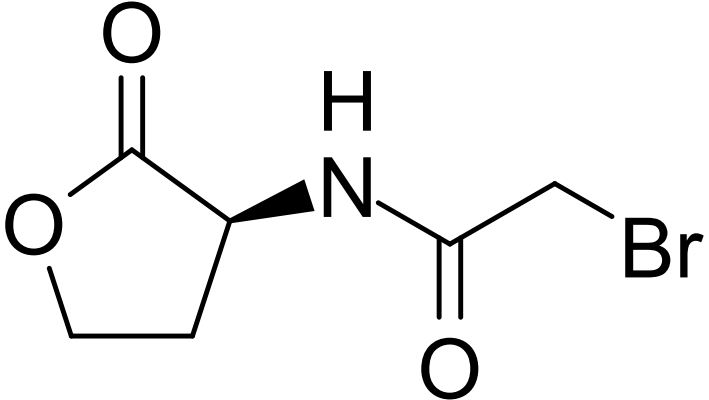
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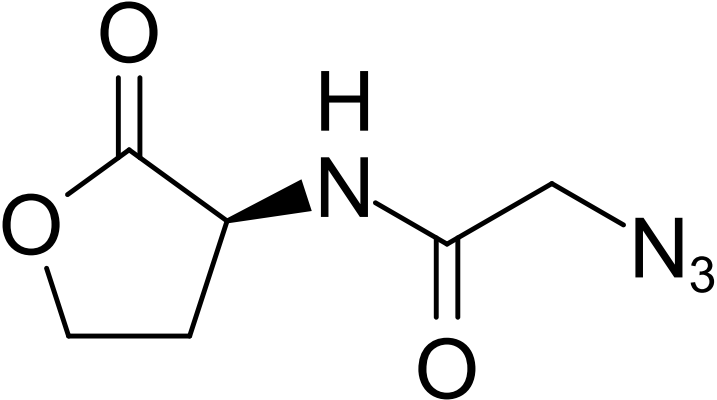
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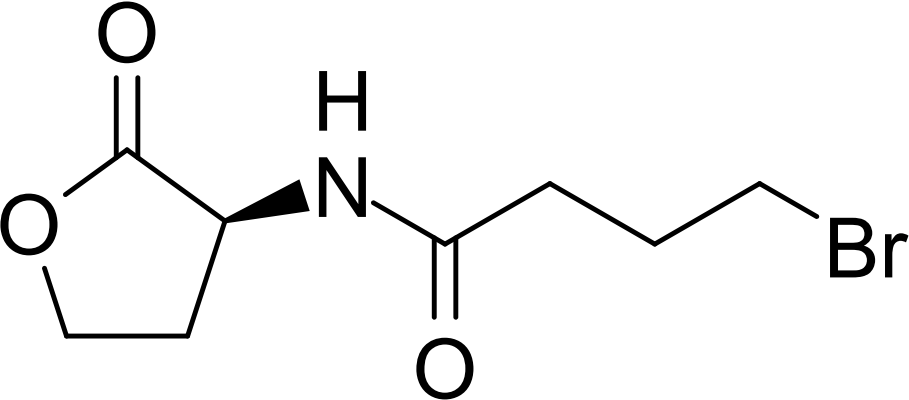
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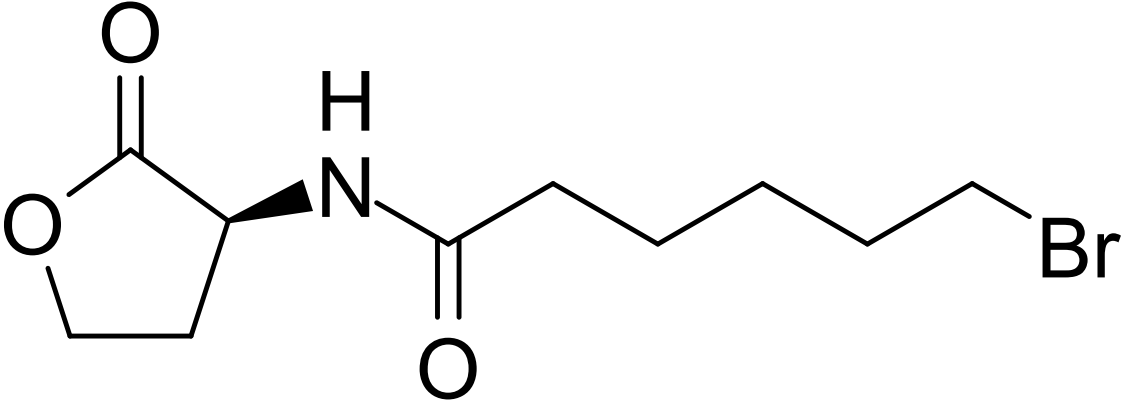
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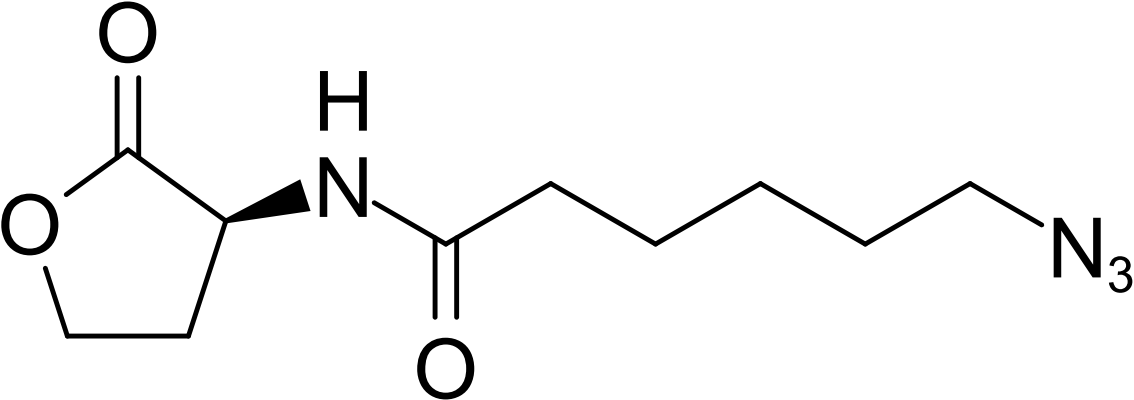
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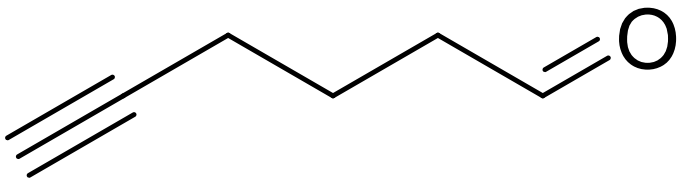
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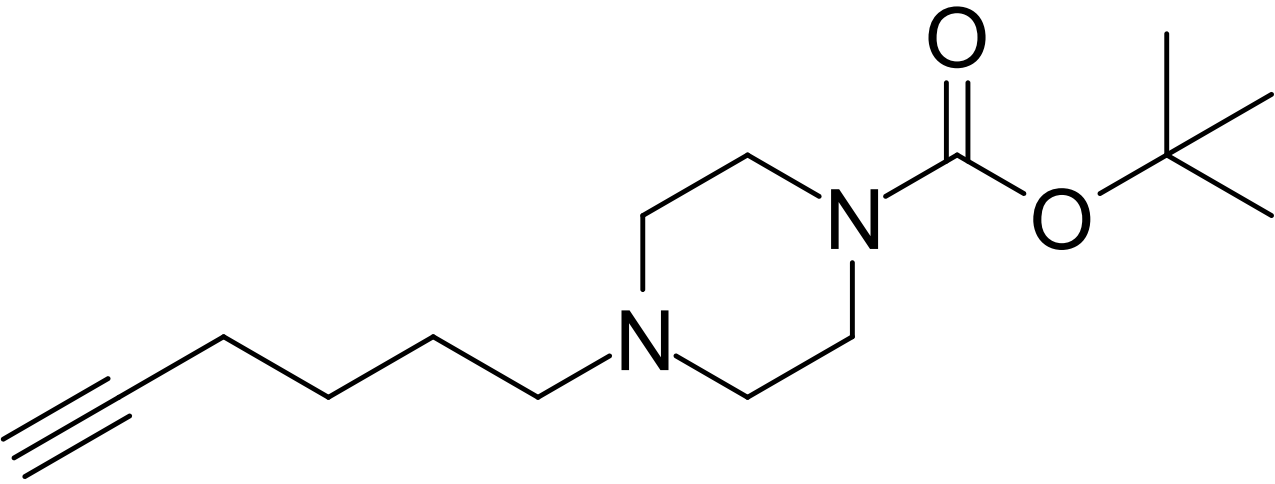
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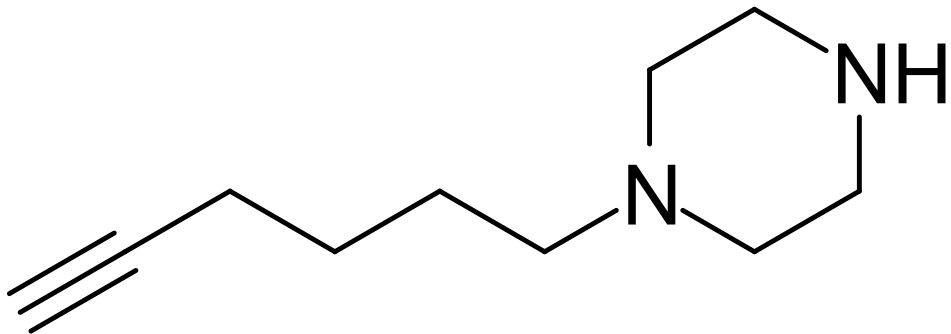
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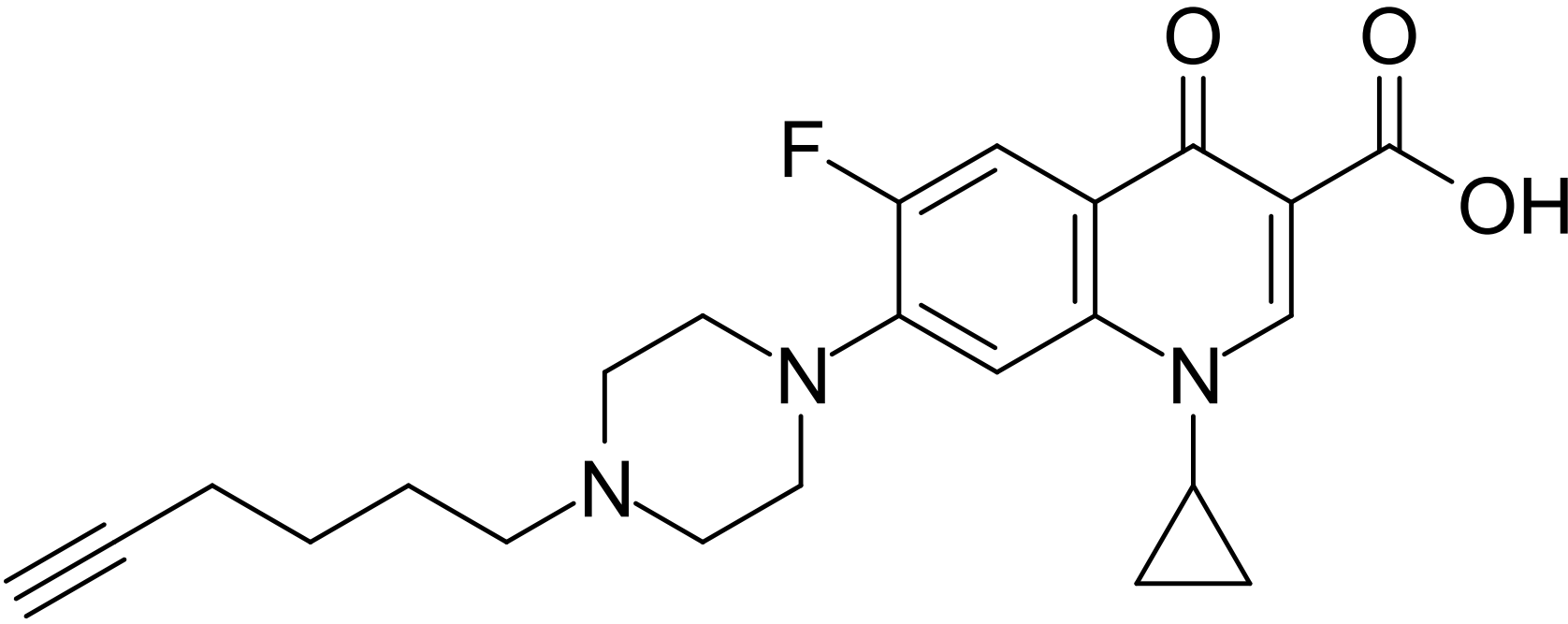
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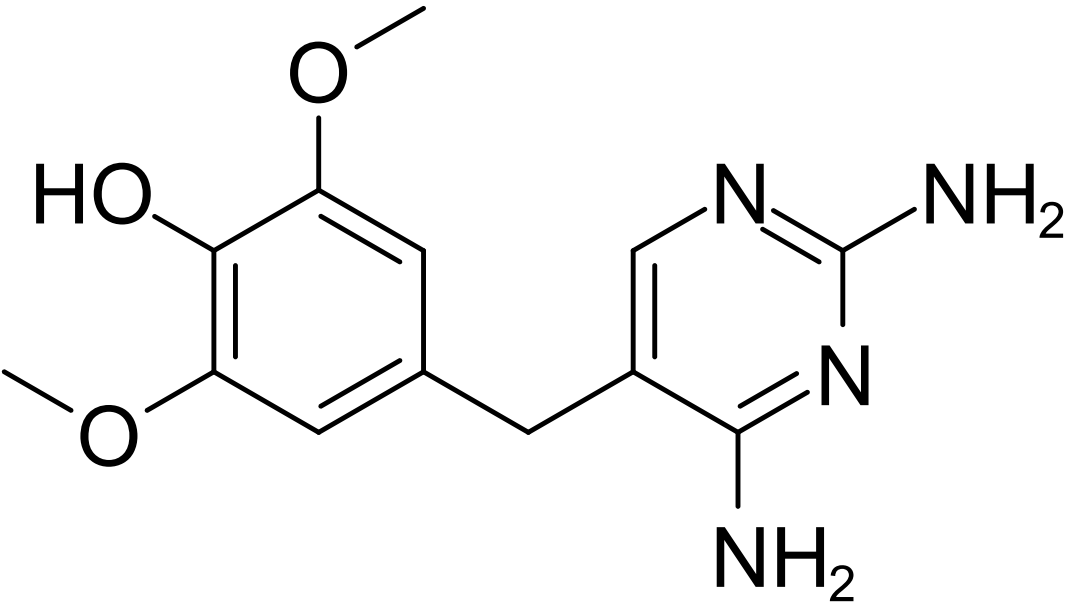
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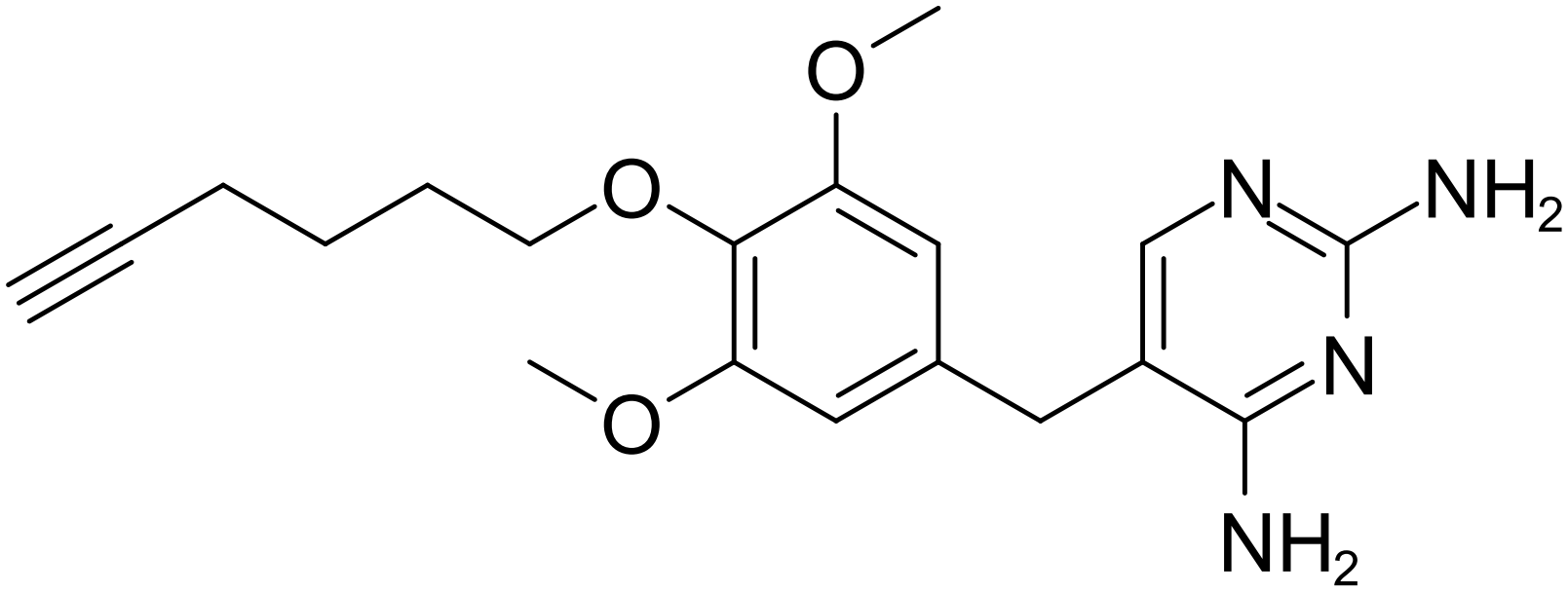
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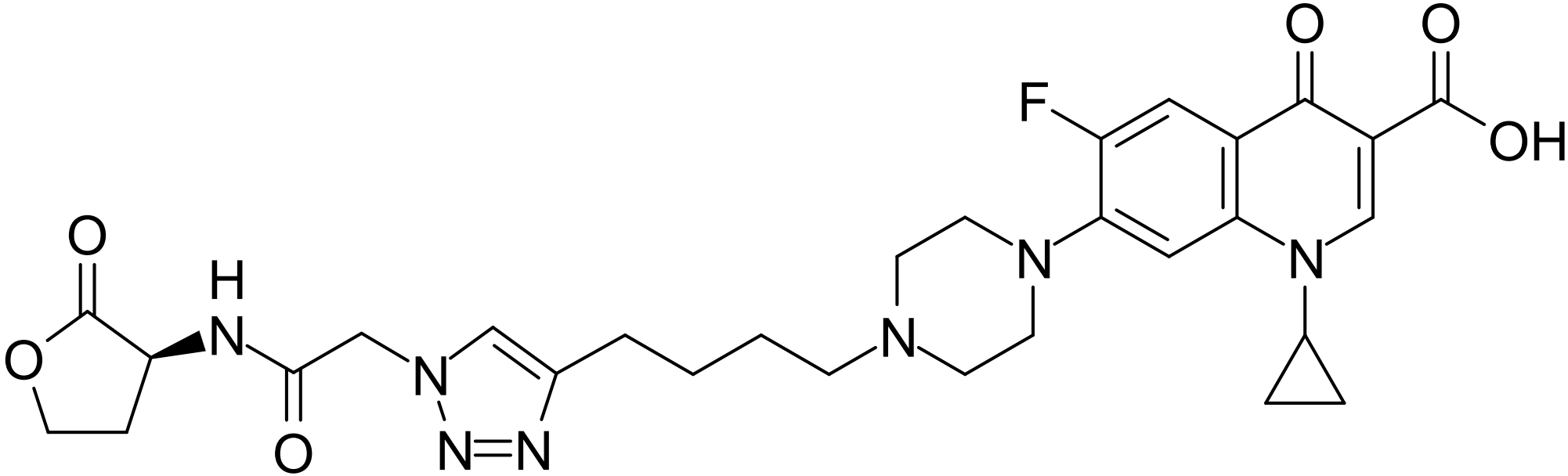
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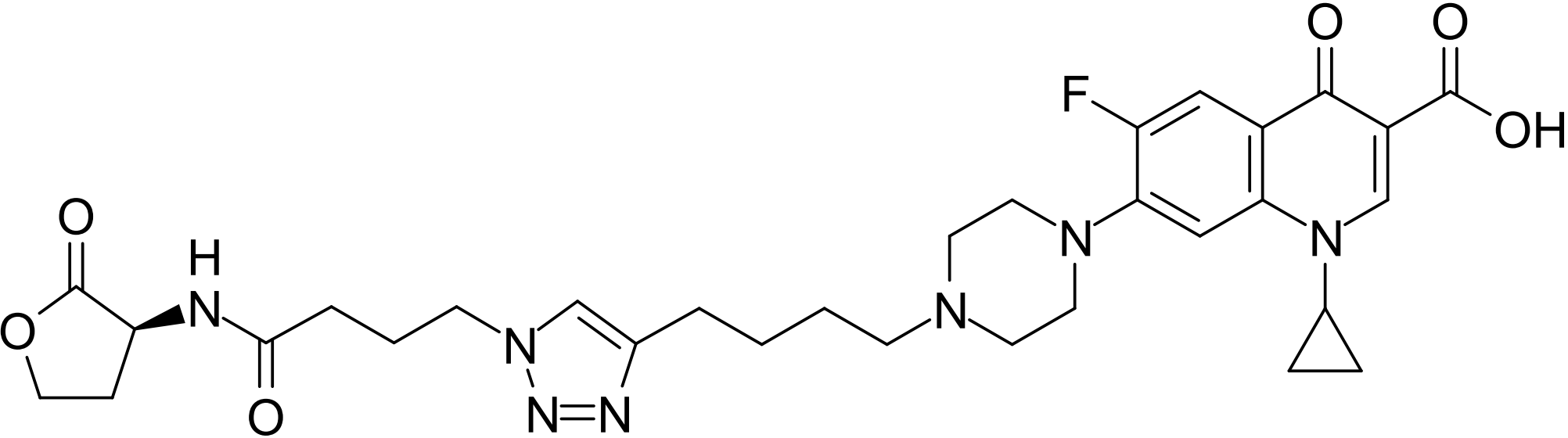
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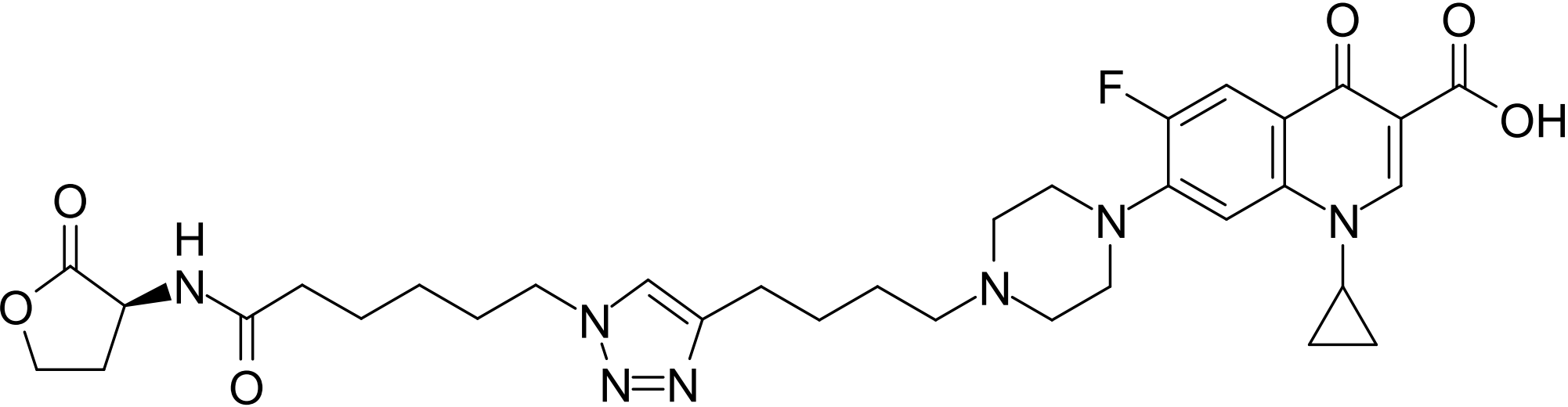

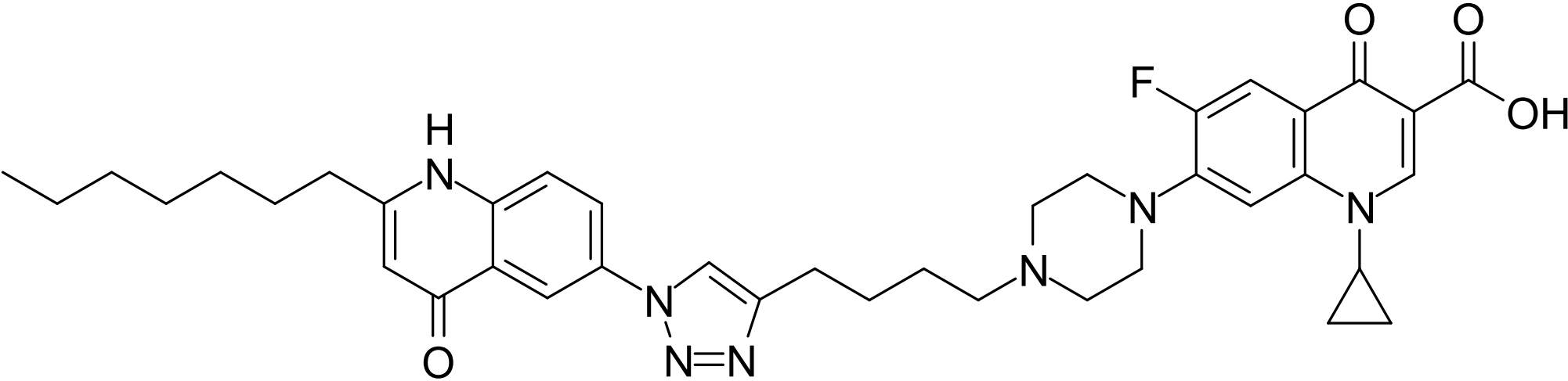
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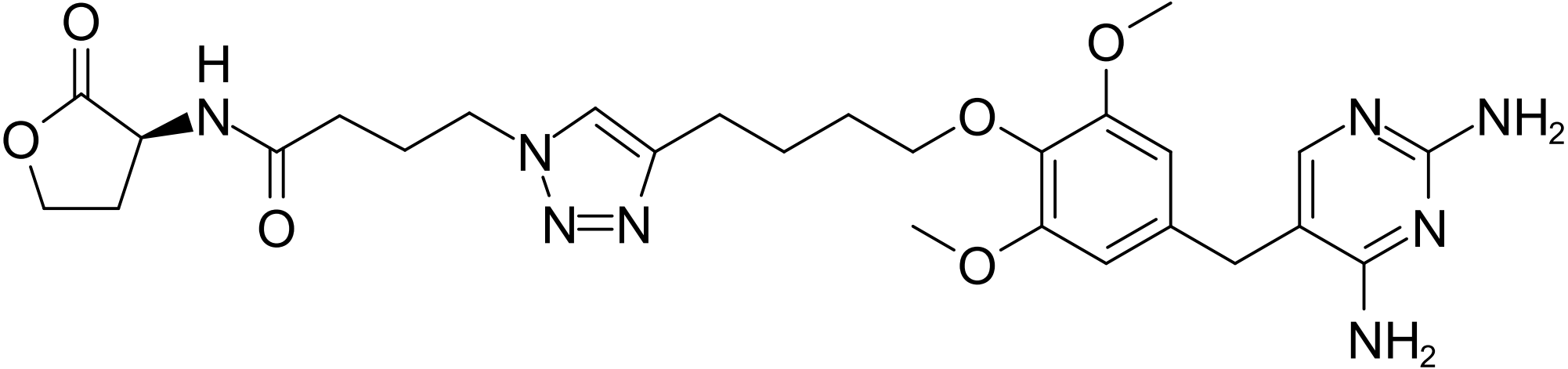

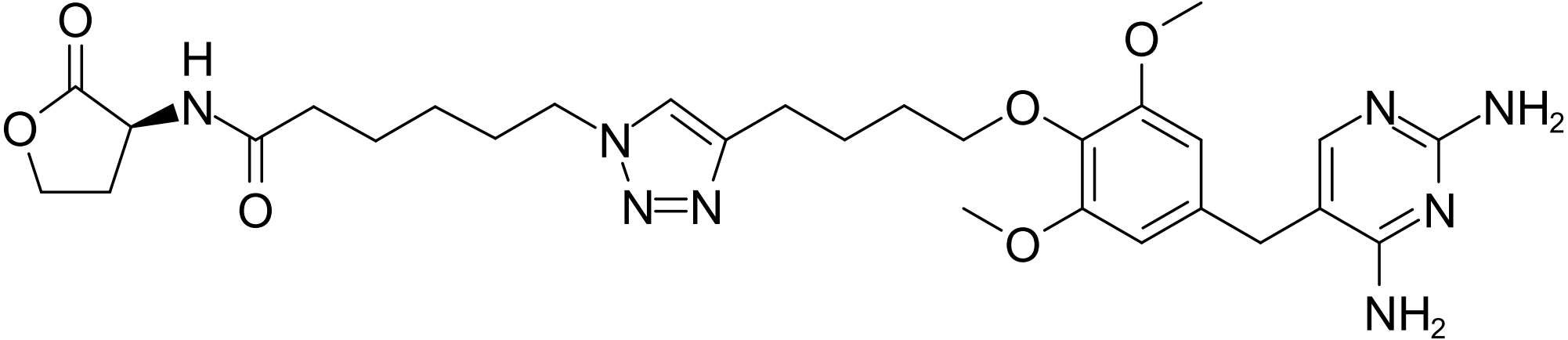

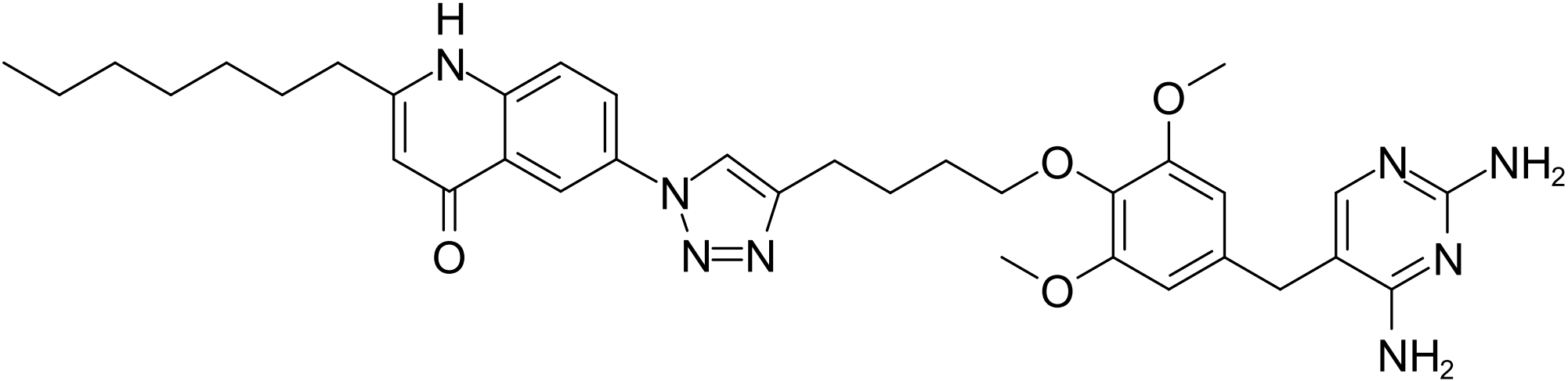

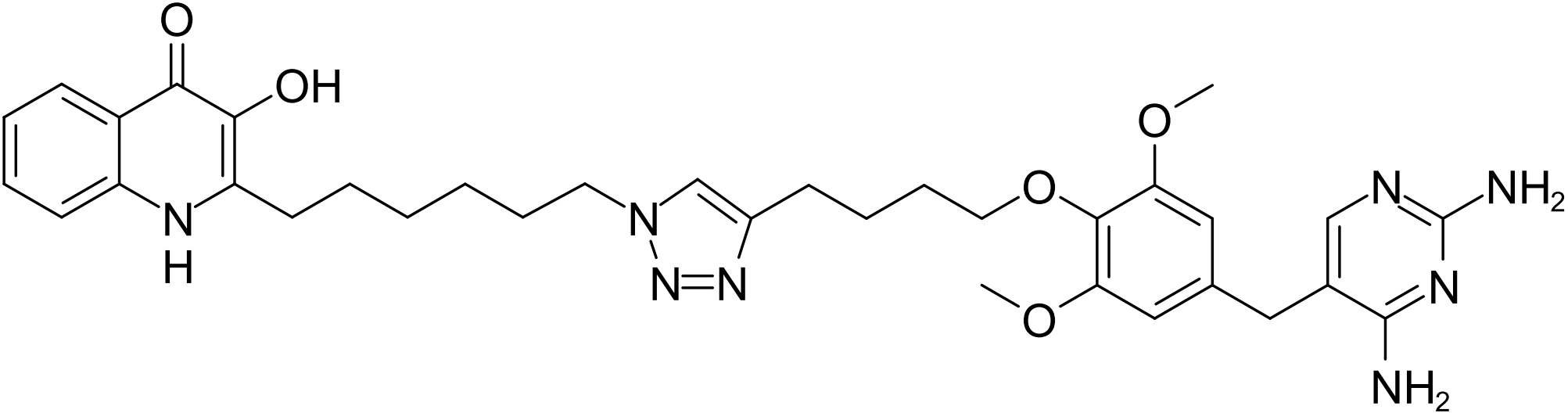
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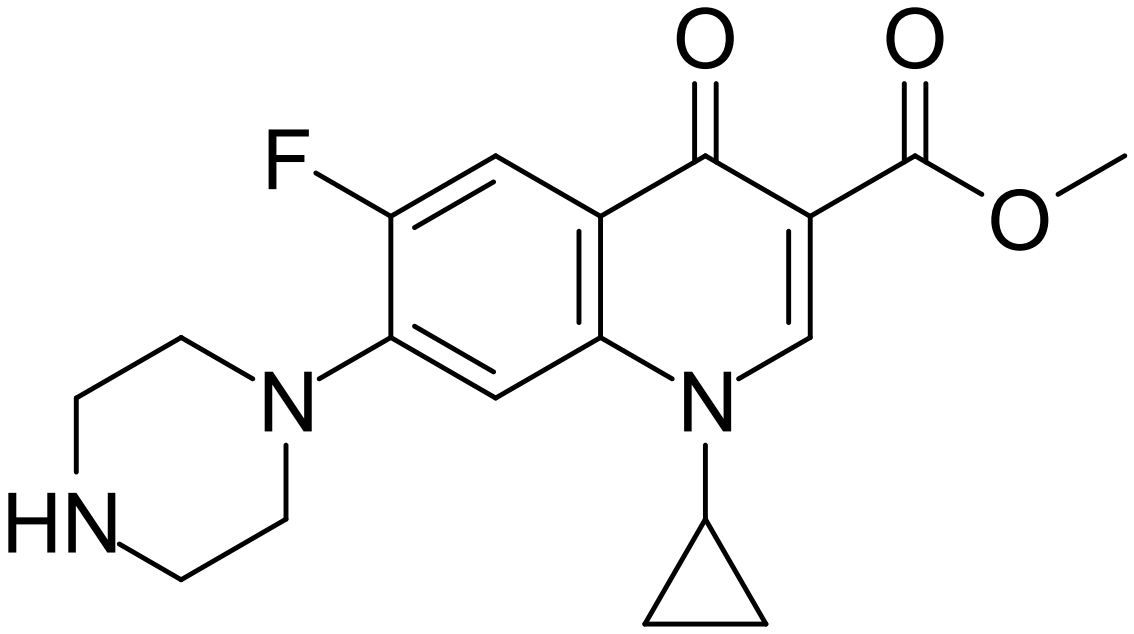
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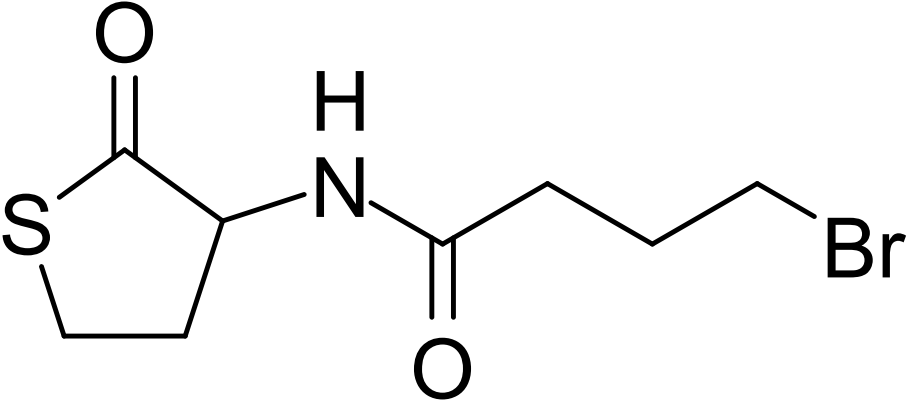
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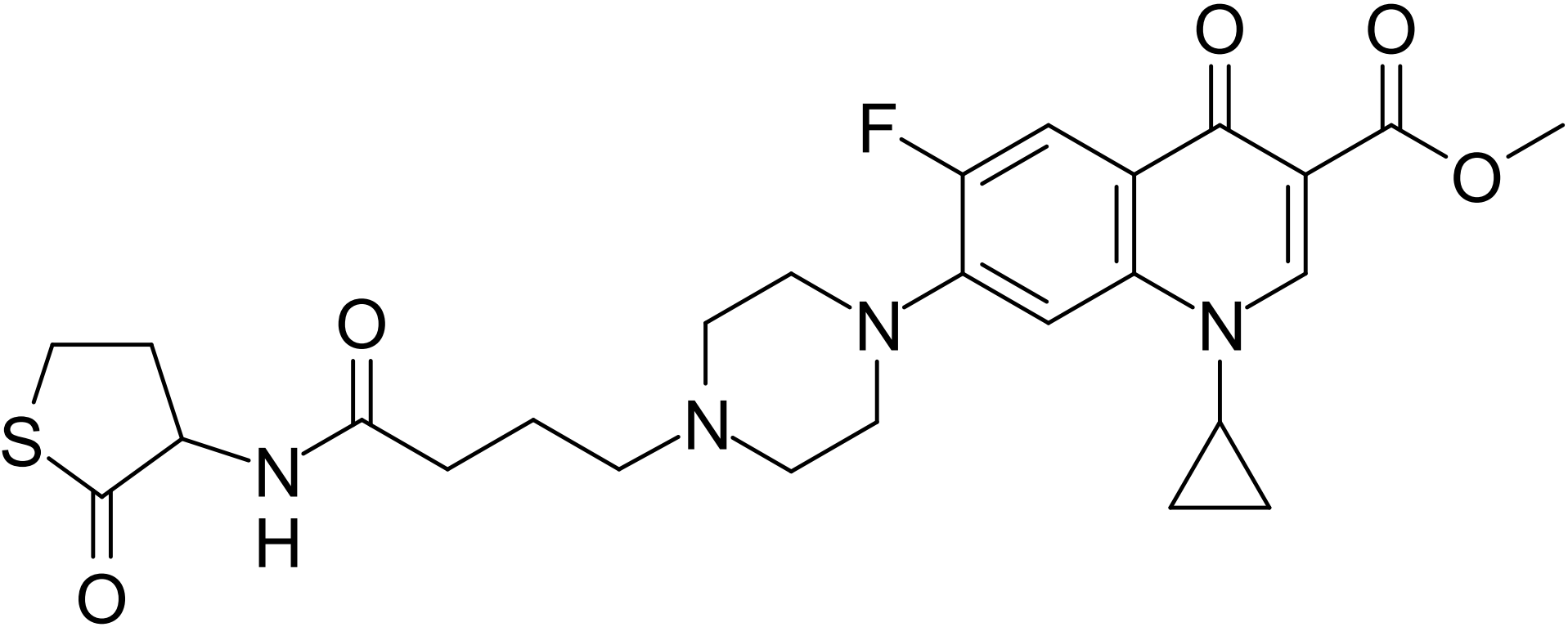
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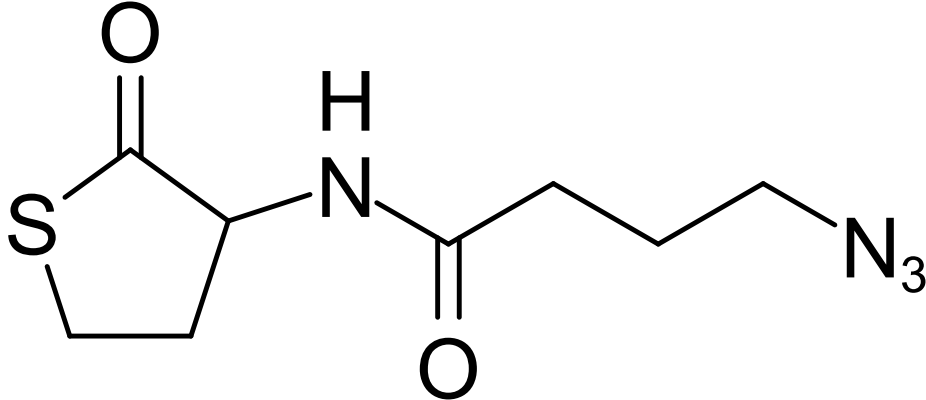
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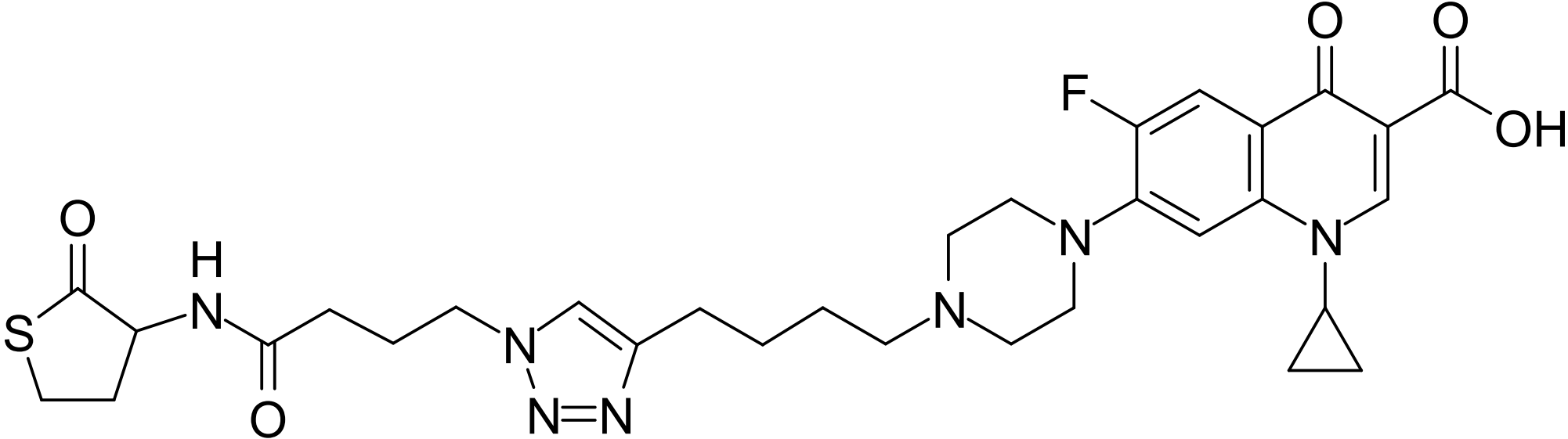
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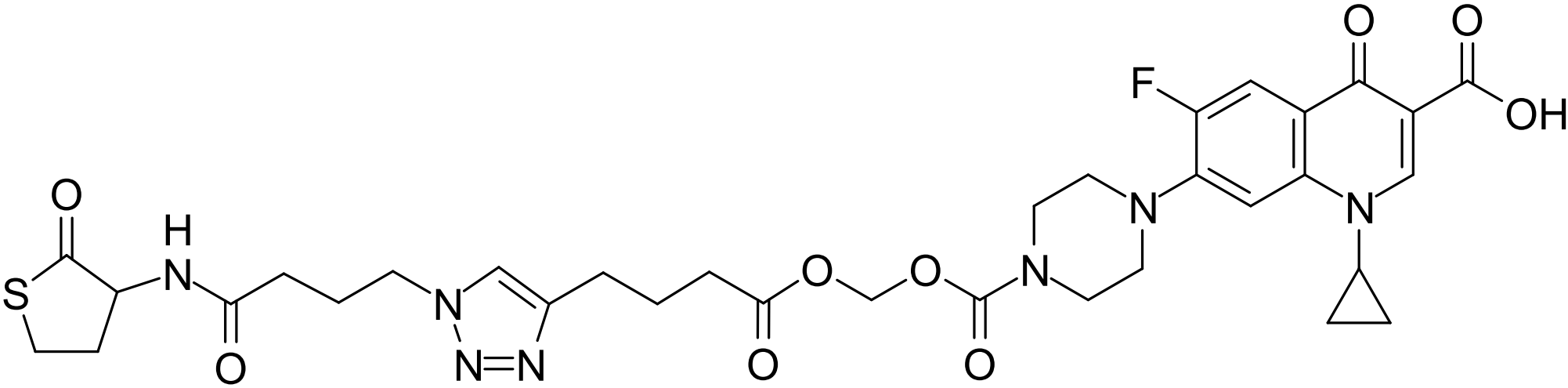
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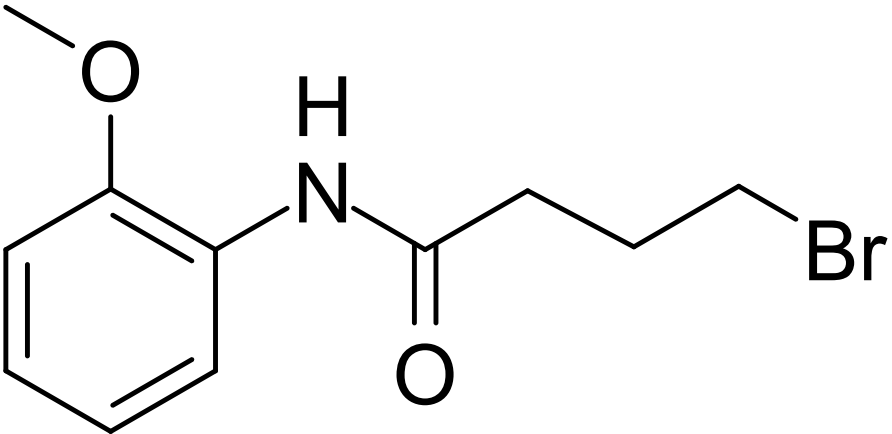
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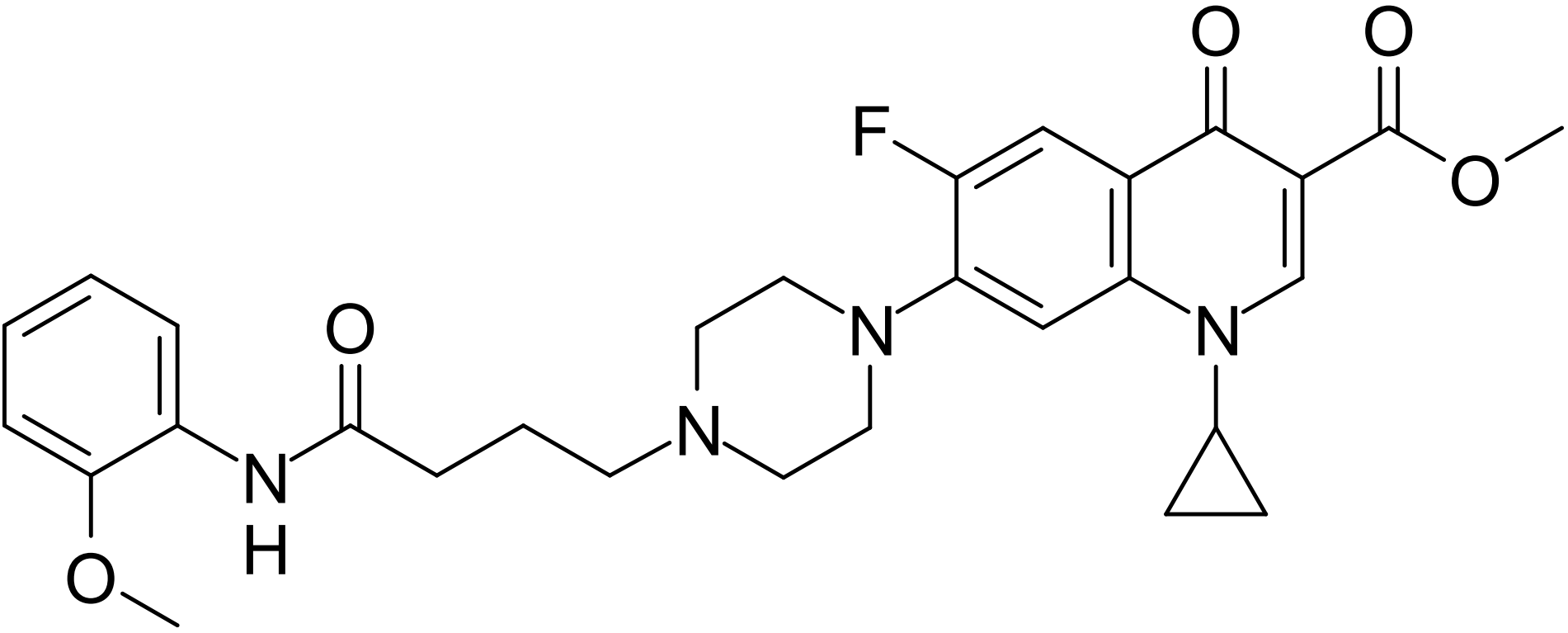
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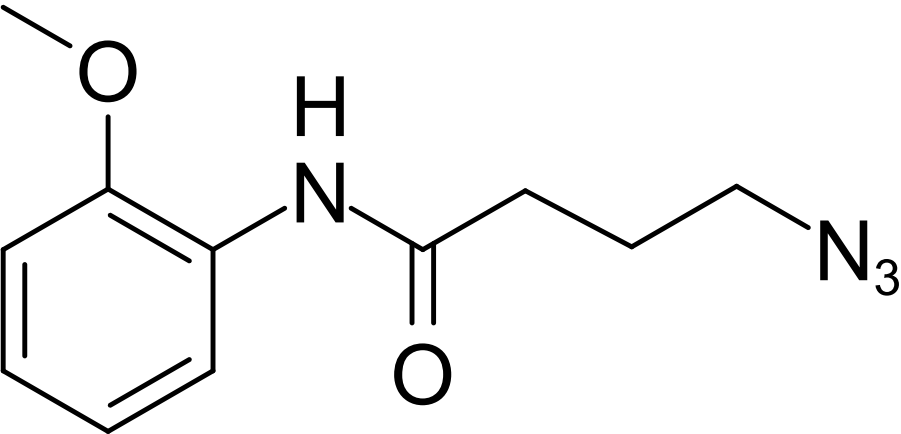
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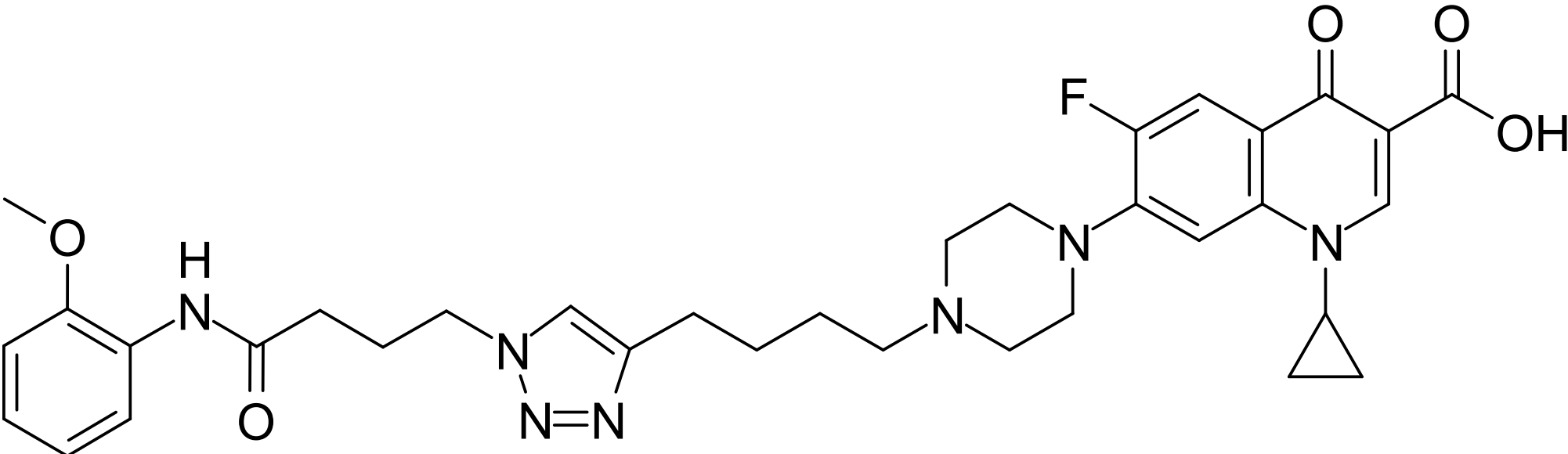
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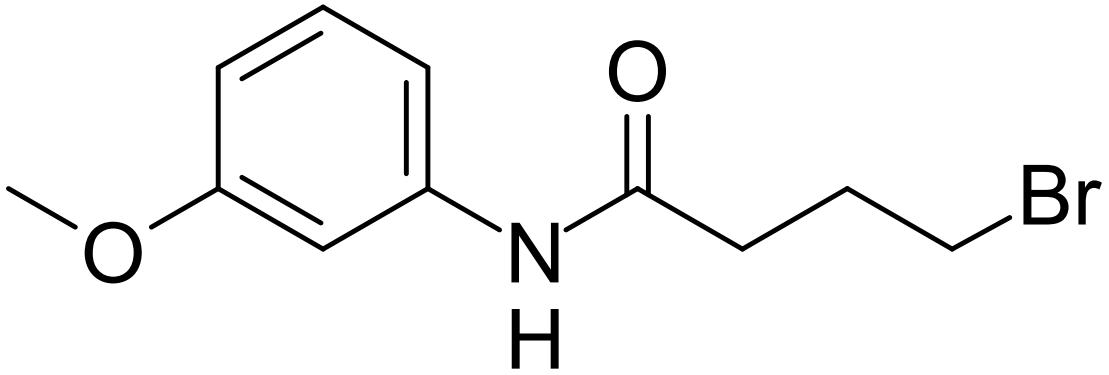
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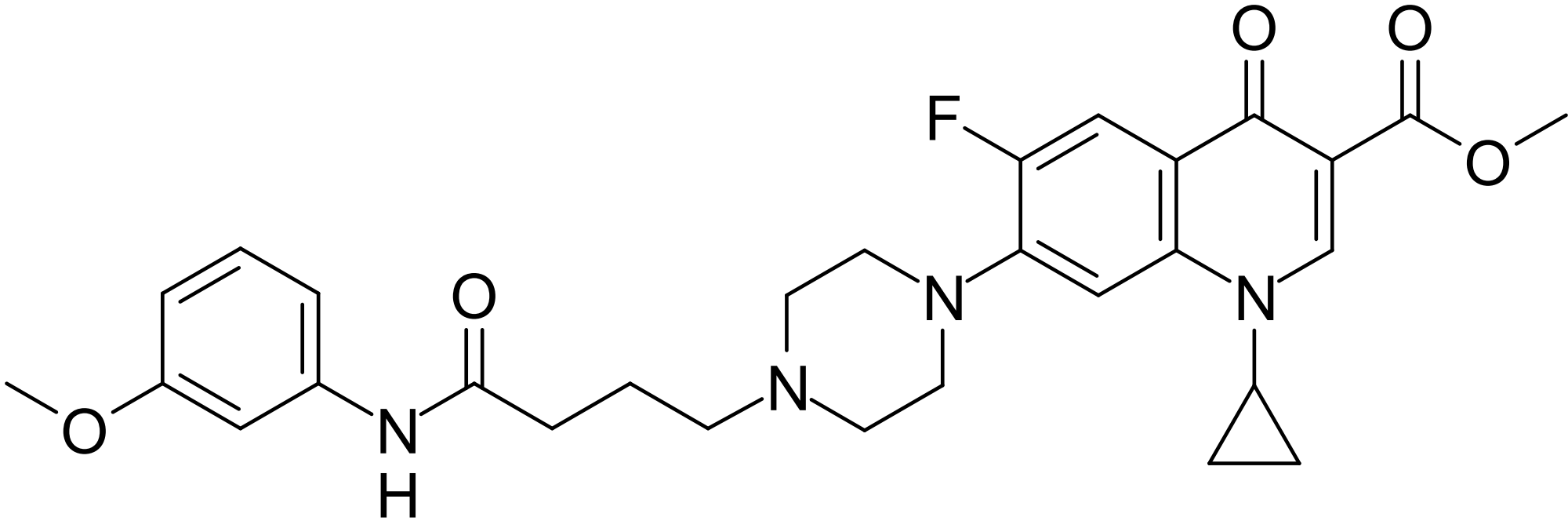

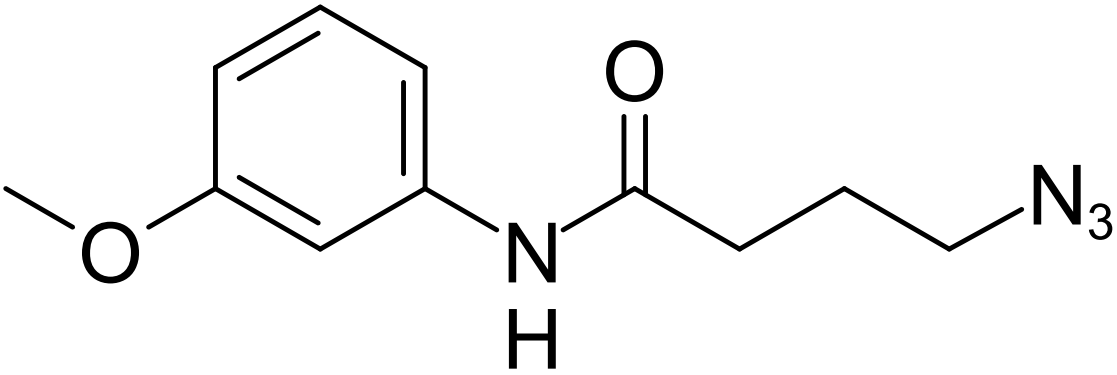
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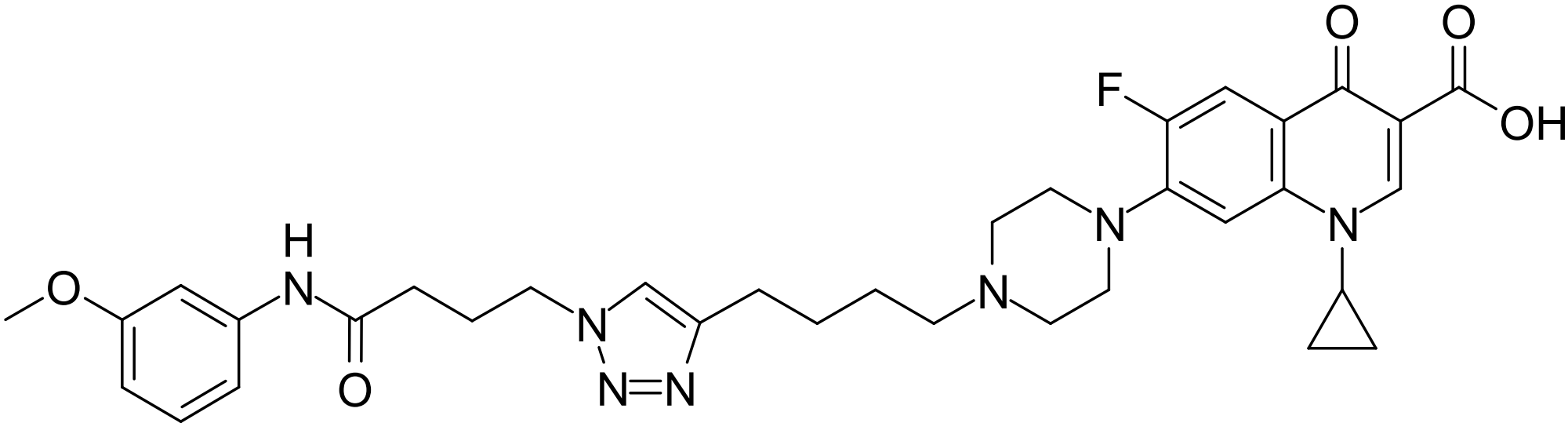
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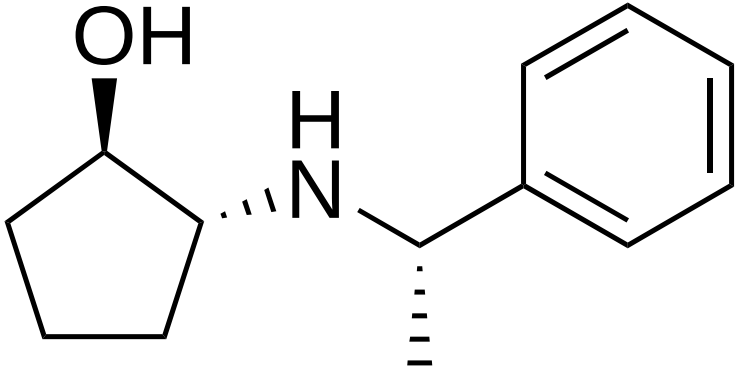

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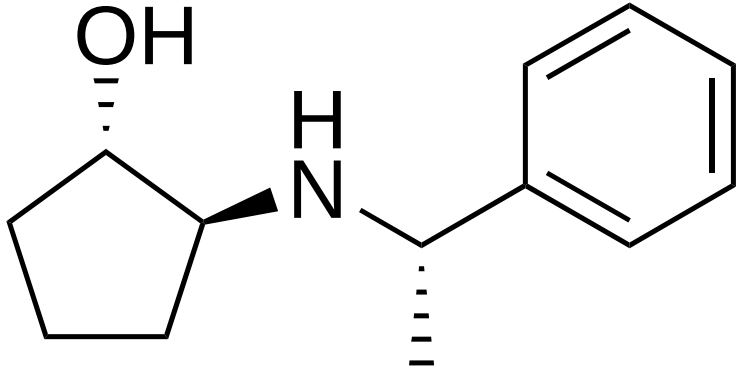

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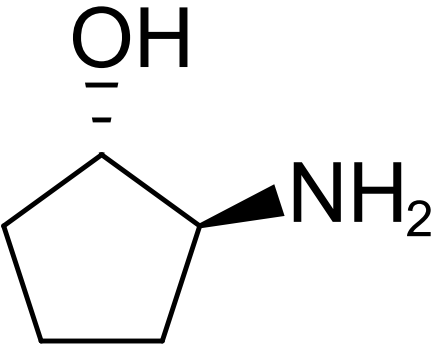
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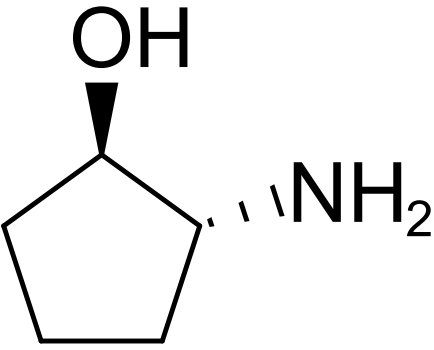
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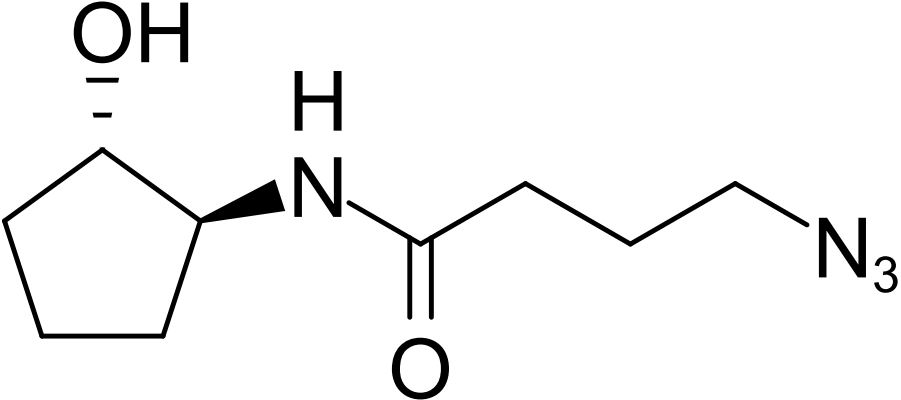
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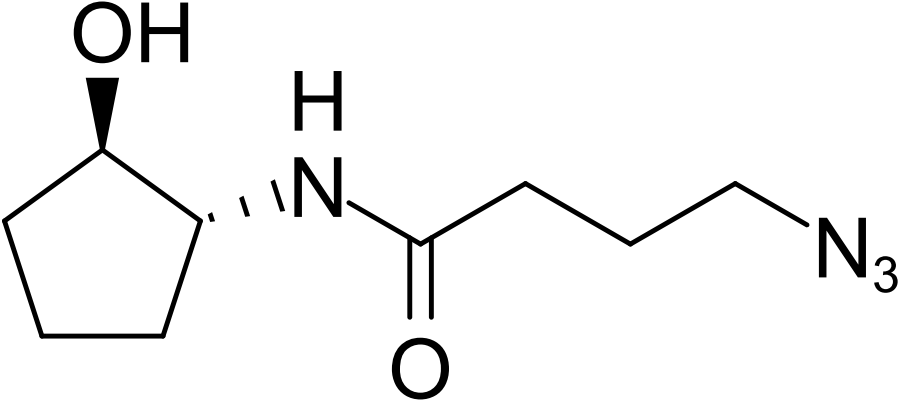
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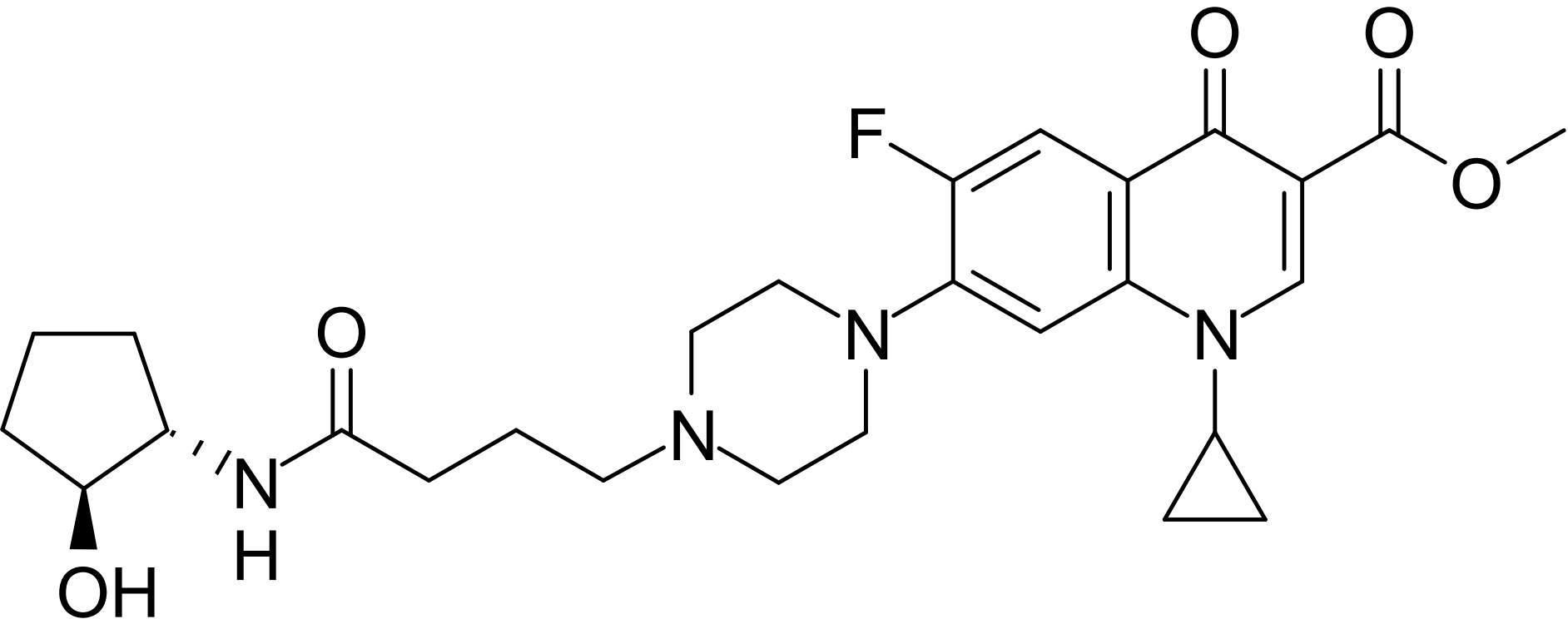
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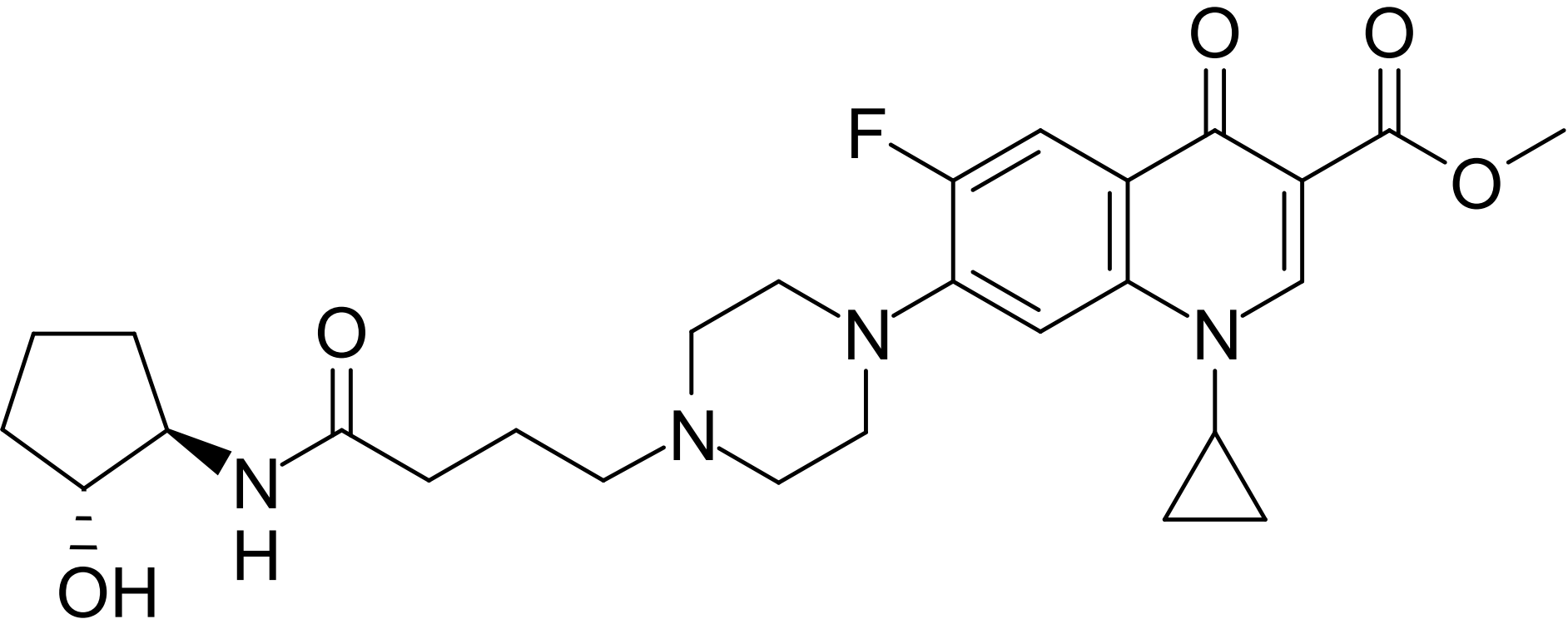
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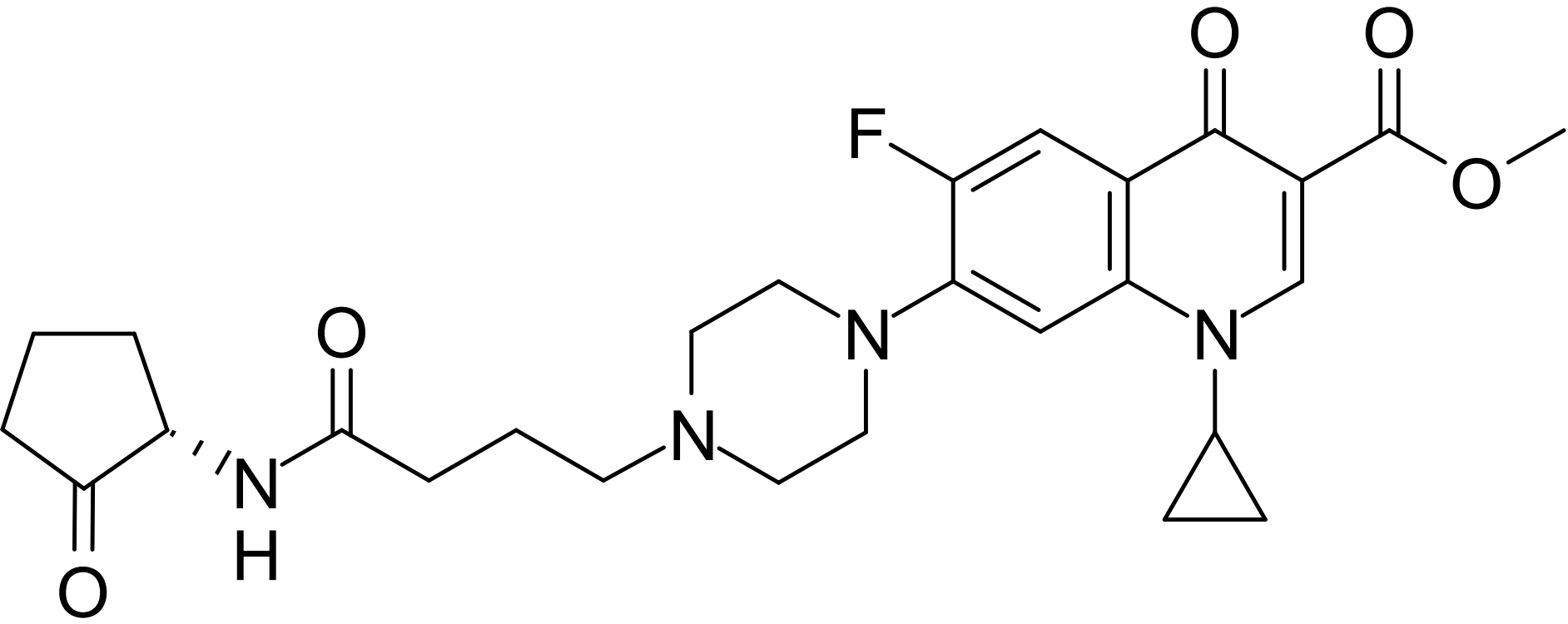
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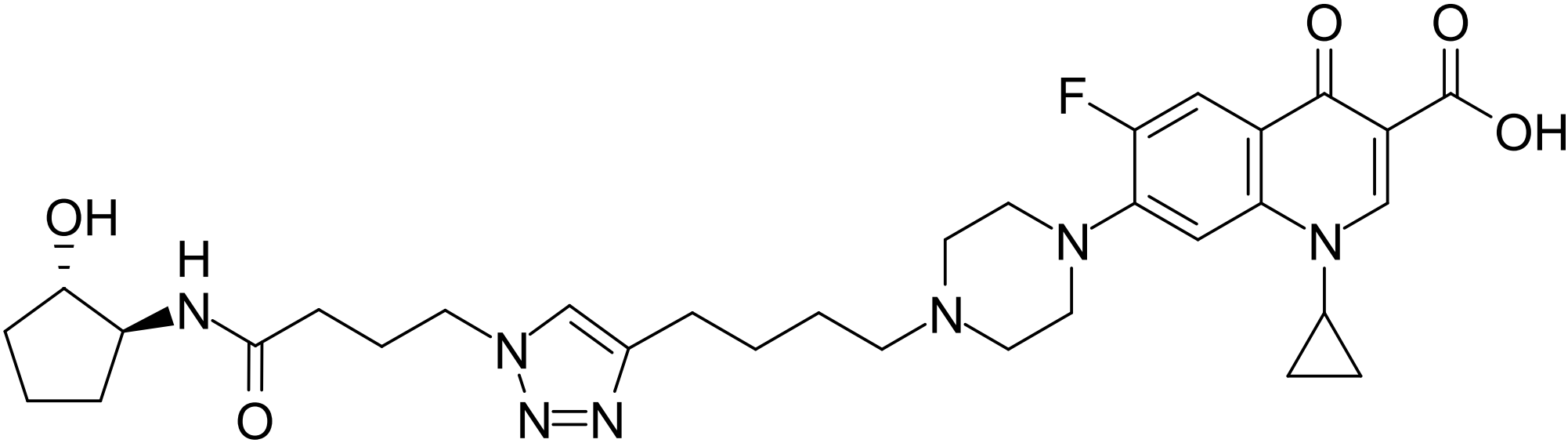
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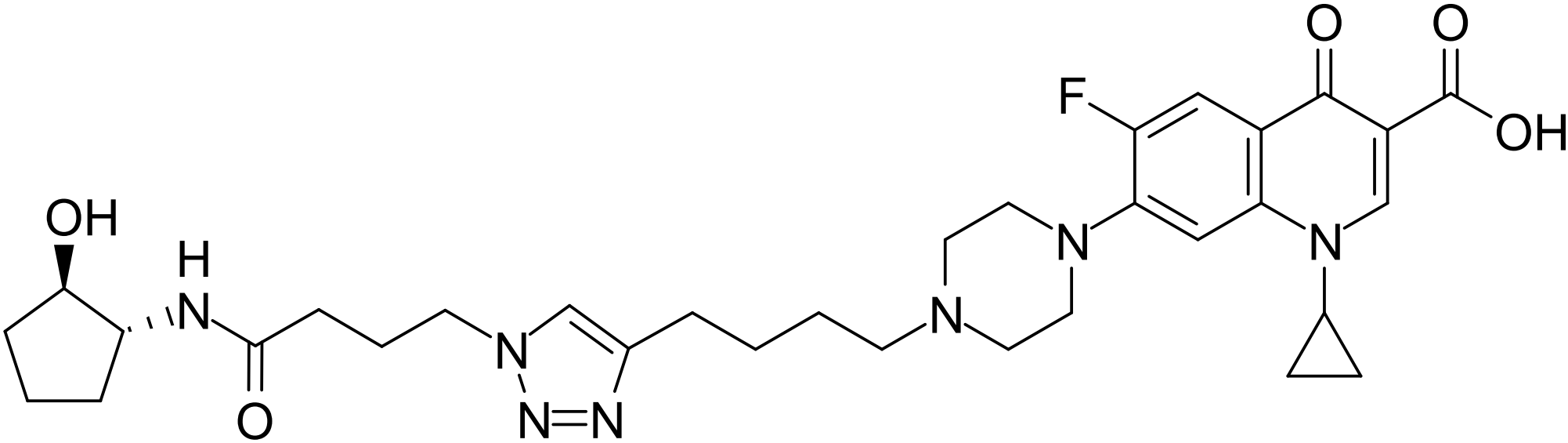
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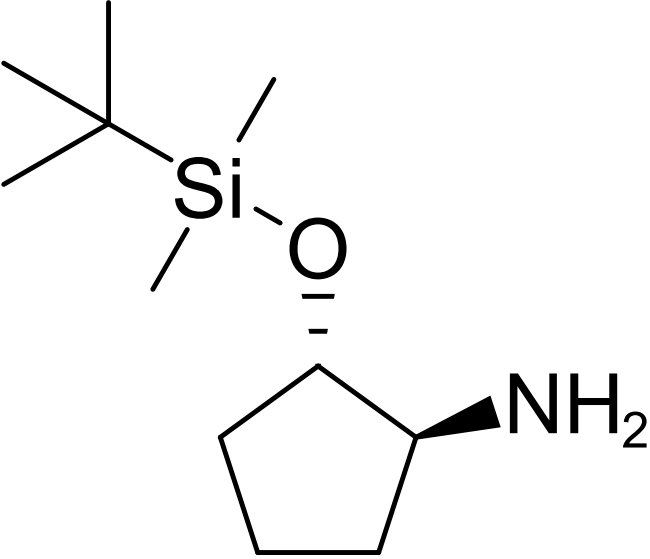
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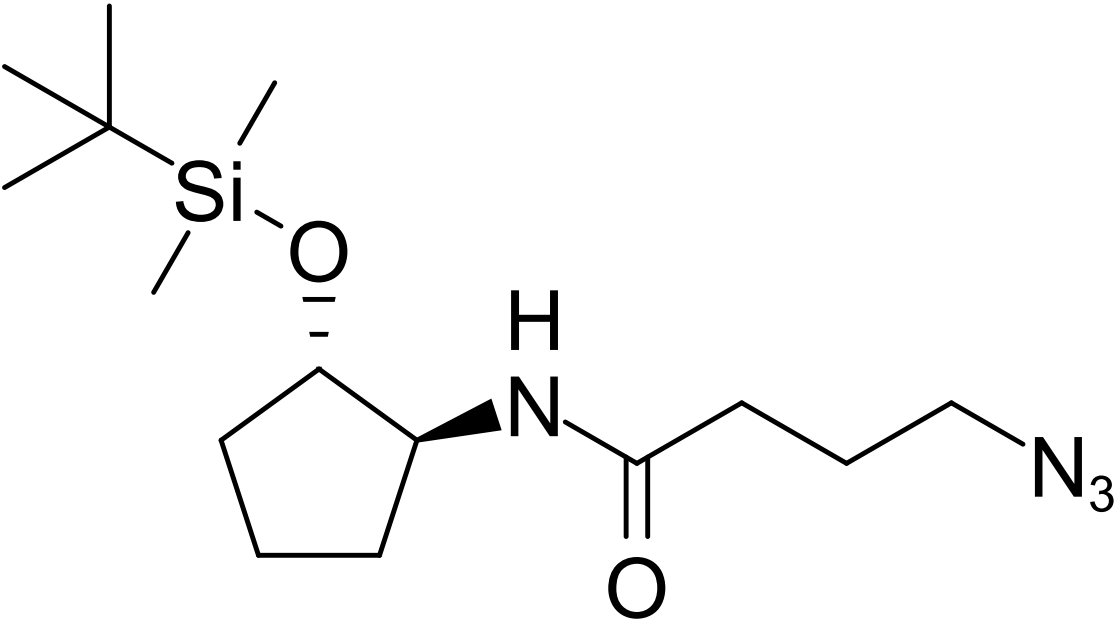
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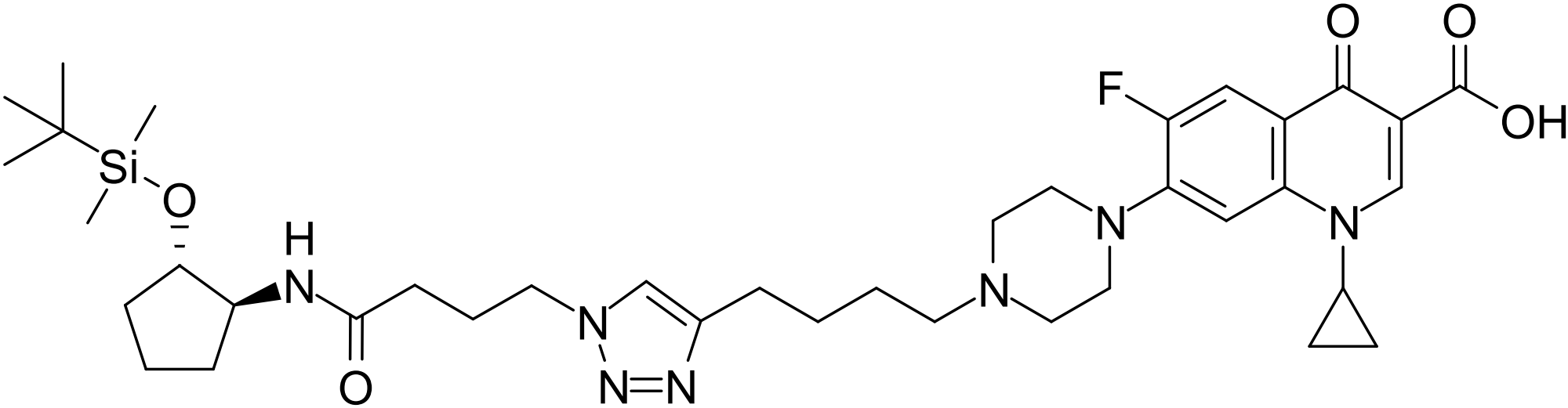
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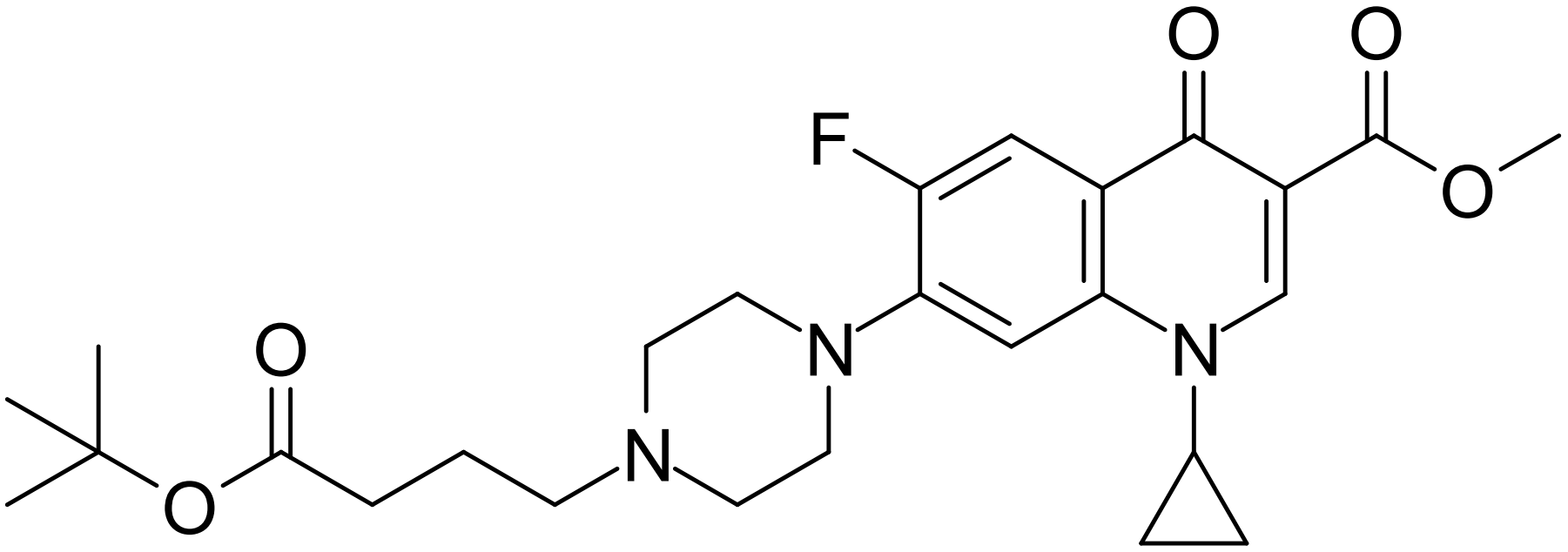
OH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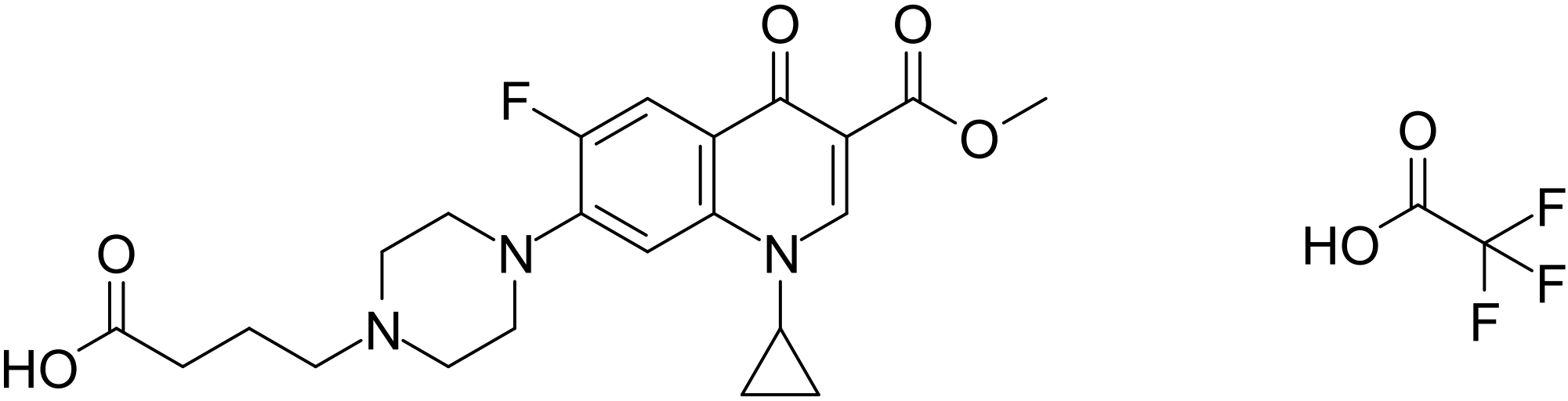
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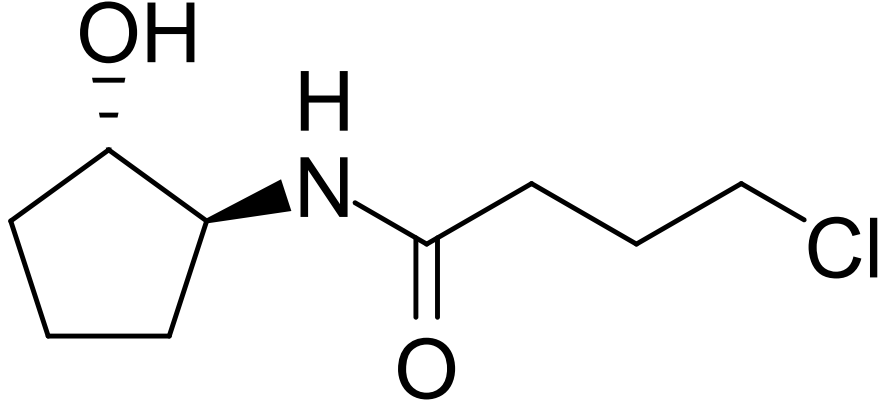
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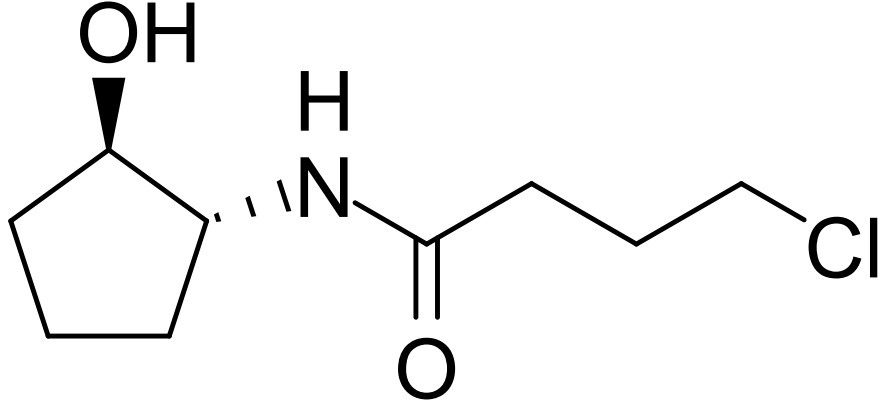
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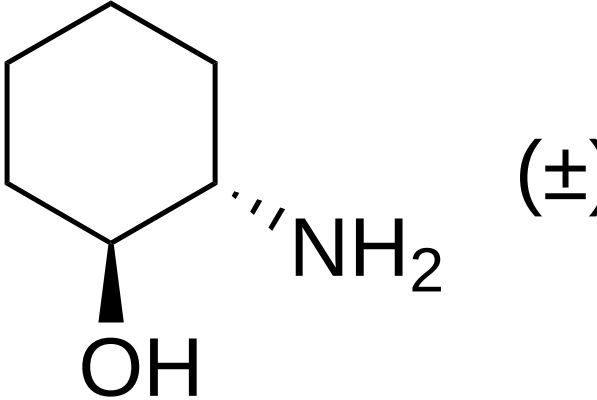
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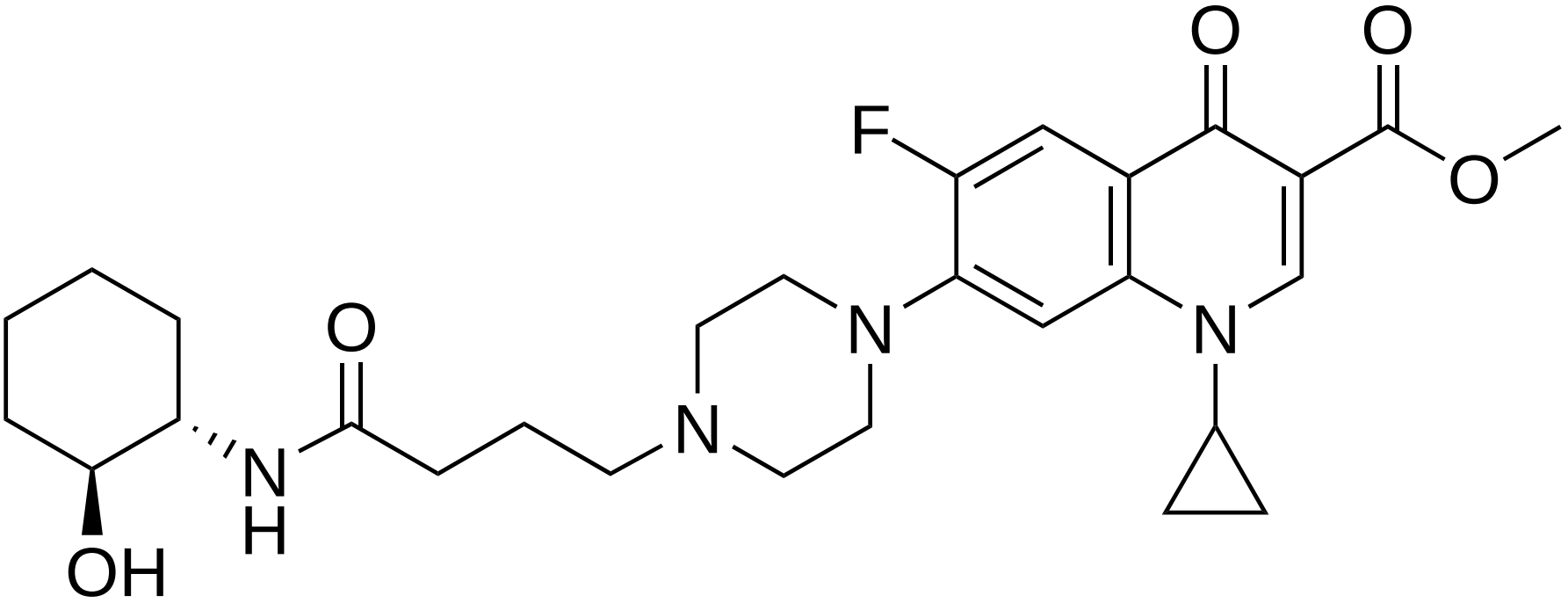
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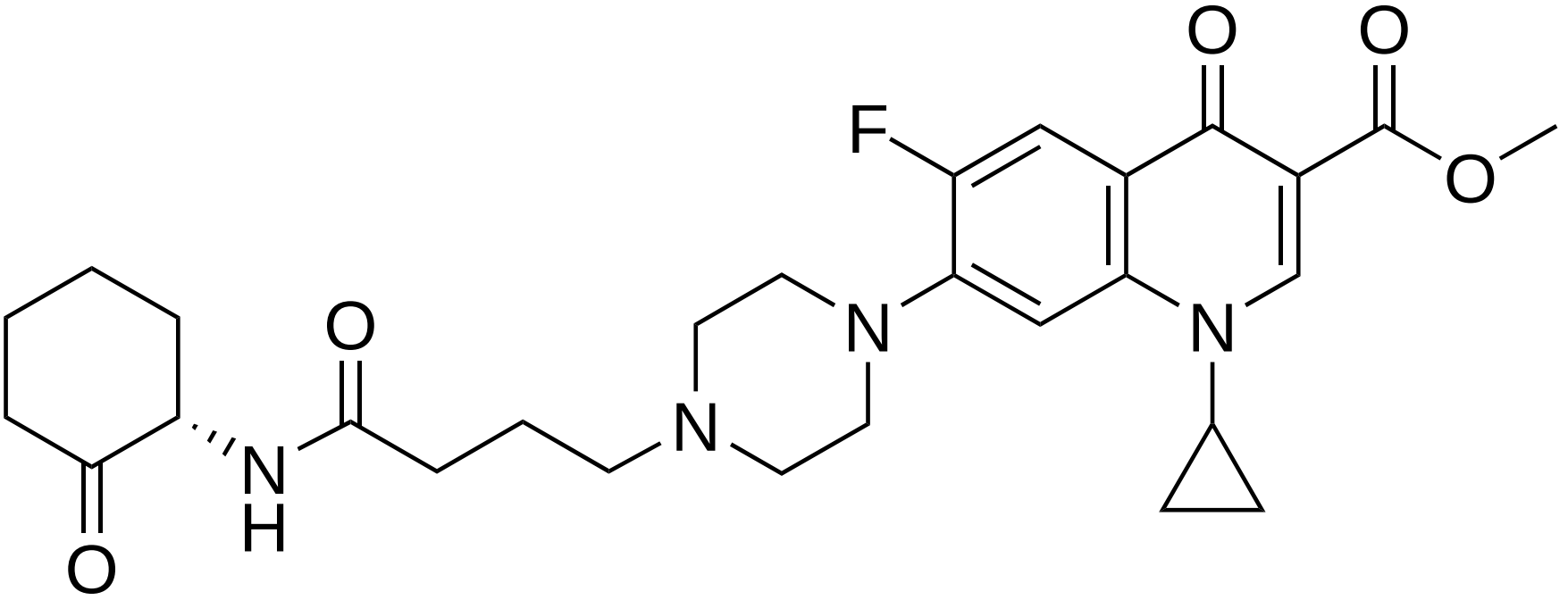
OH

(±)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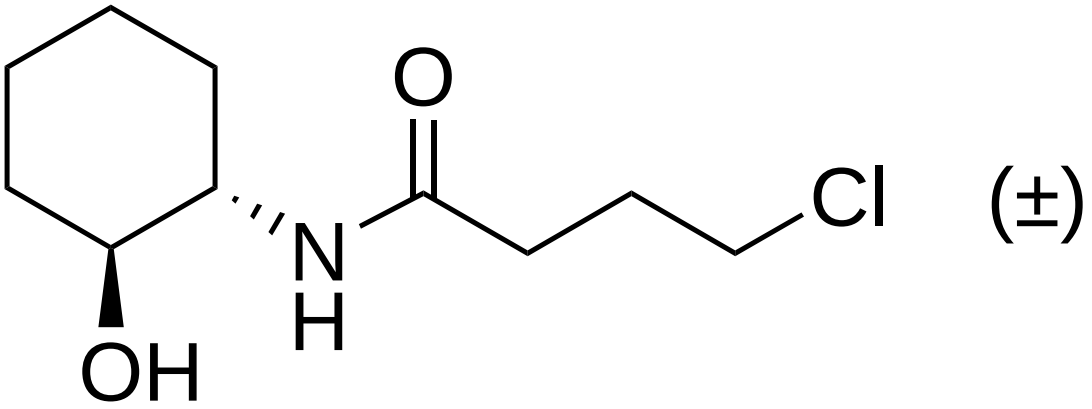
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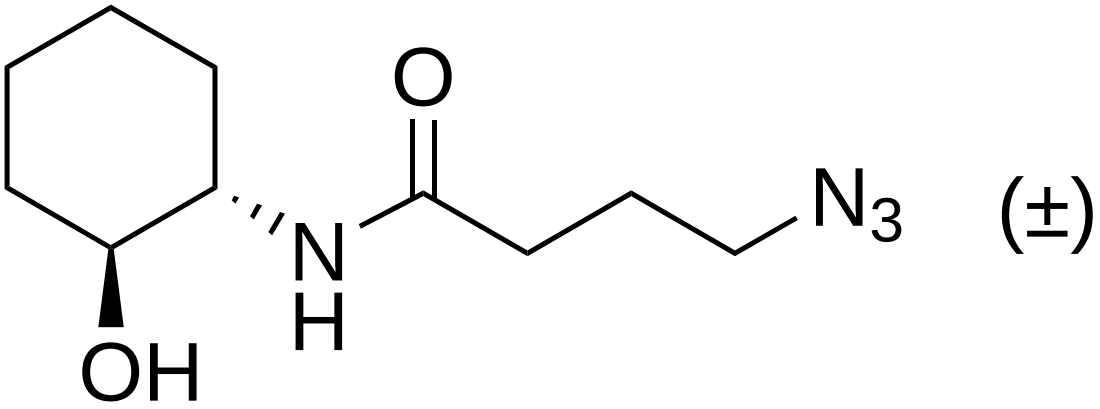
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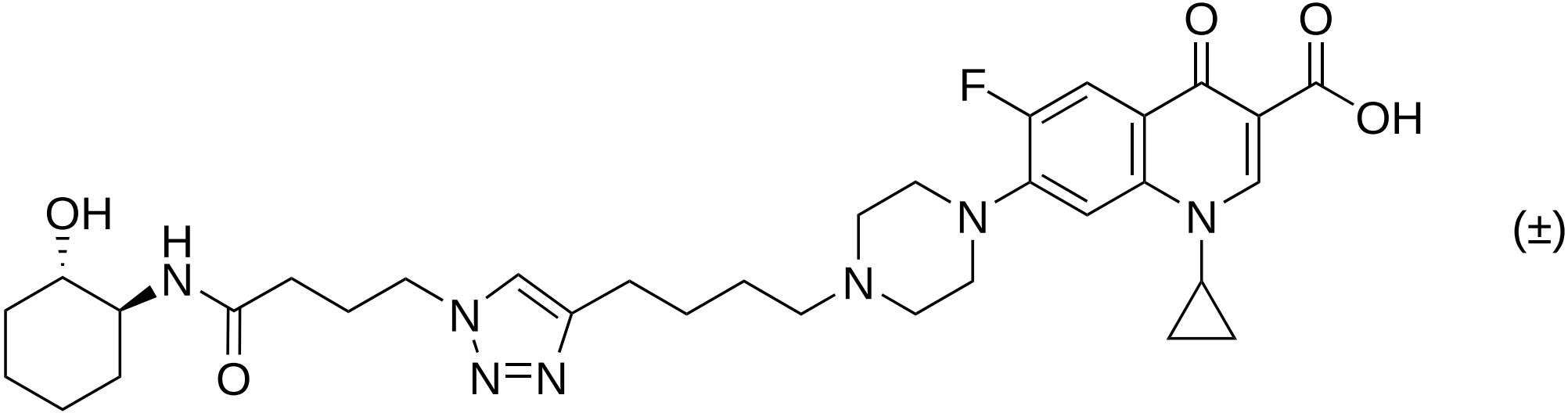
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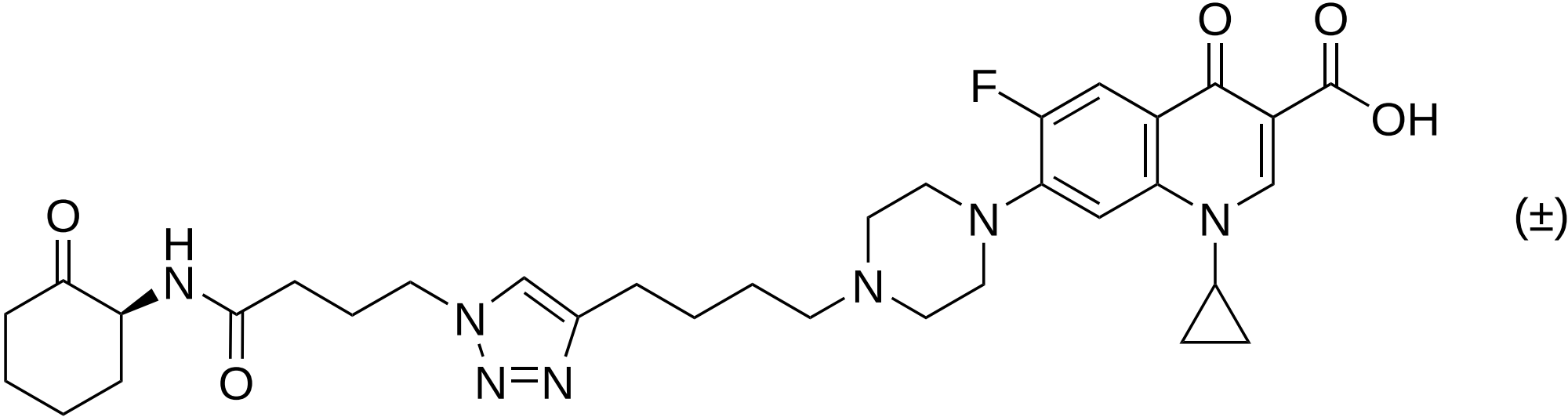
(±)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