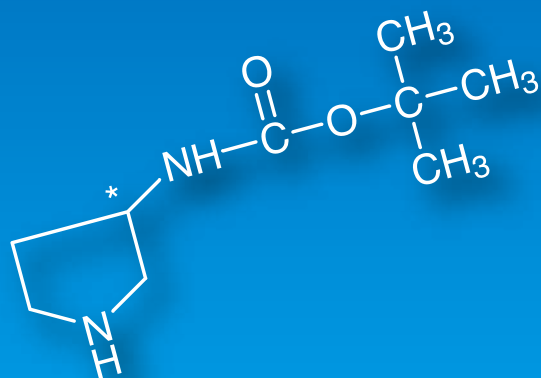
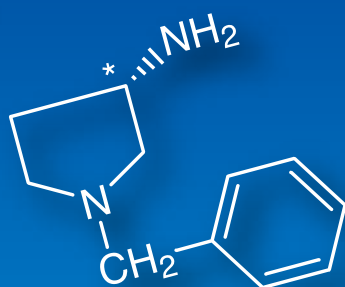
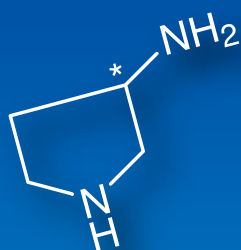


# 3-Aminopyrrolidines



Racemic Compounds

Chiral Compounds

# 3-Aminopyrrolidines

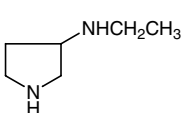
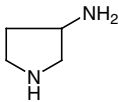
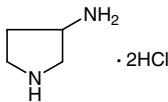
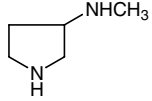
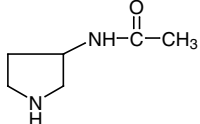
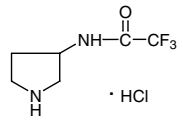
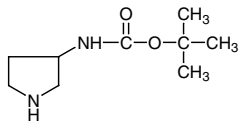
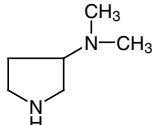
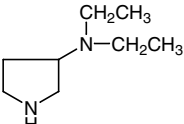
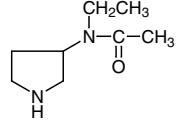
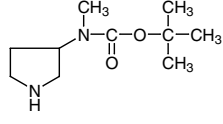
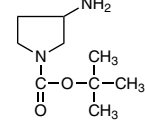
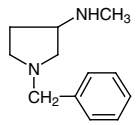
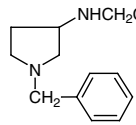
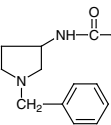
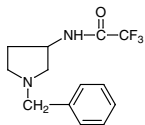
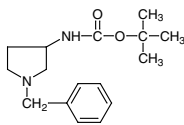
3-Aminopyrrolidines make up important components of bioactive compounds, and are found in pharmaceuticals and agricultural chemicals. The 3-aminopyrrolidine skeleton exerts a great influence on the pharmaceutical activity of 4-quinolonecarboxylate antibacterial agents. Moreover, 3-aminopyrrolidines have an asymmetric carbon atom and the relationship between their absolute configurations and the pharmaceutical activity has been studied thoroughly. With its established technologies, TCI has started commercial production of chiral 3-aminopyrrolidines, and is able to produce it in large quantities.

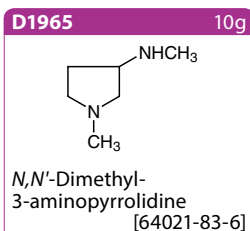
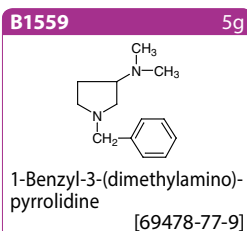
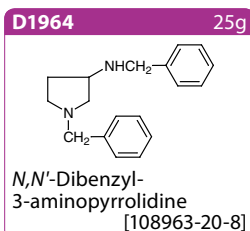
Because 3-aminopyrrolidines have two amino groups in the molecule, they can generate di-substituted compounds and as well as two mono-substituted compounds by reaction with electrophiles. Therefore, if 3-aminopyrrolidines are to be introduced in a specific manner, it is necessary to protect one amino group. TCI has a wide assortment of mono-protected 3-aminopyrrolidines, where one amino group is protected by common protecting groups such as benzyl group or Boc group.

## References

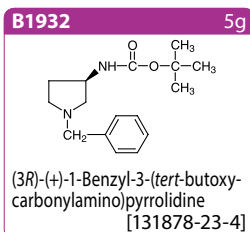
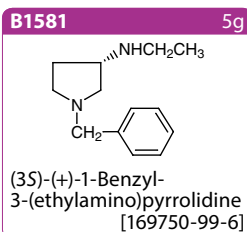
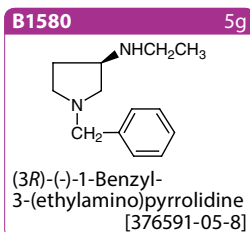
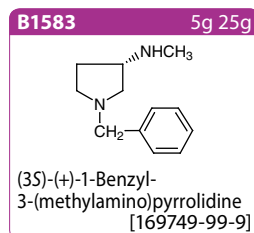
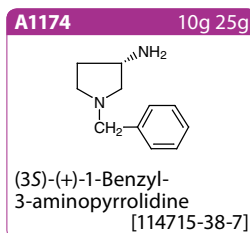
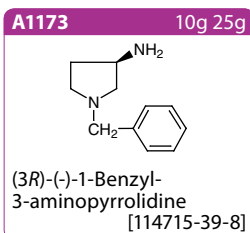
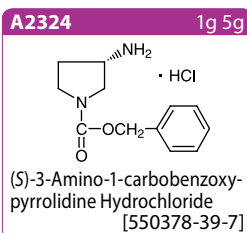
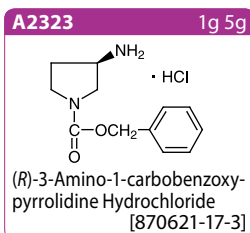
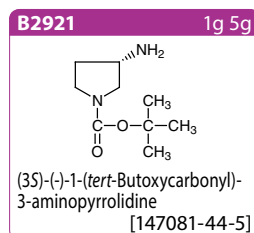
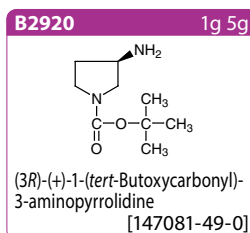
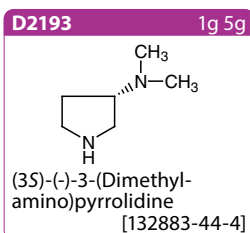
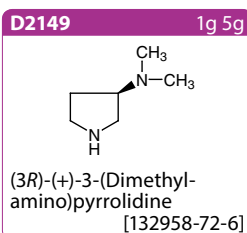
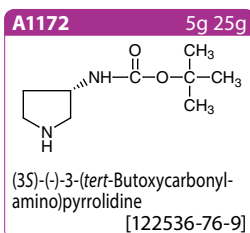
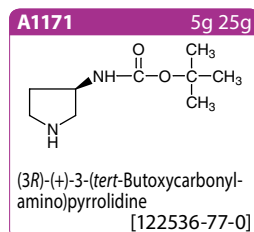
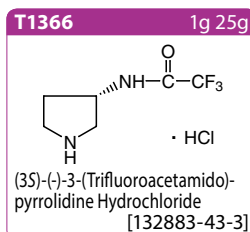
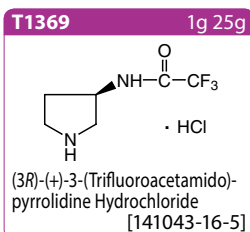
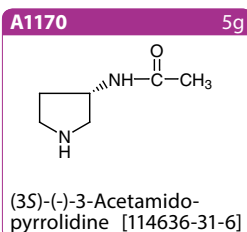
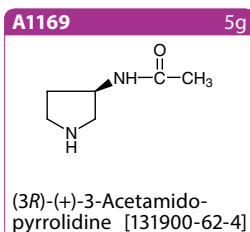
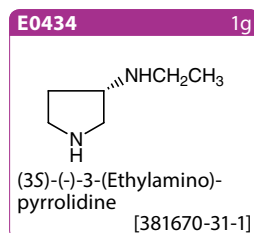
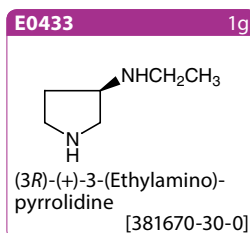
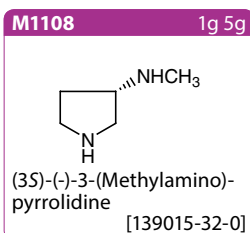
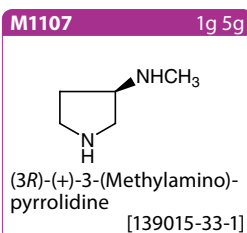
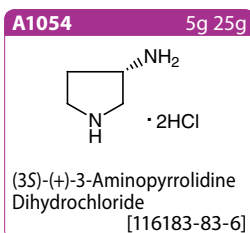
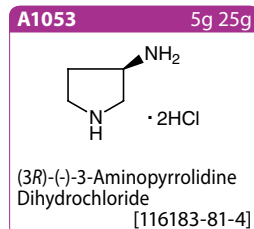
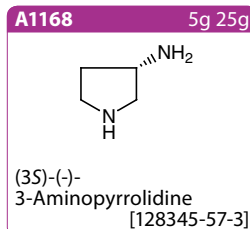
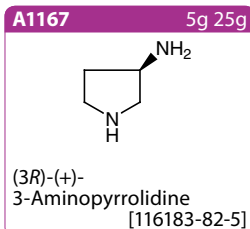
- Tokyo Kasei Kogyo Co., Ltd., Jpn. Kokai Tokkyo Koho JP02218664, **1990**.  
 Tokyo Kasei Kogyo Co., Ltd., Jpn. Kokai Tokkyo Koho JP63041453, **1988**.  
 Tokyo Kasei Kogyo Co., Ltd., Jpn. Kokai Tokkyo Koho JP63041452, **1988**.  
 Tokyo Kasei Kogyo Co., Ltd., Eur. Pat. Appl. EP 218,249, **1987**.  
 M. A. Youngman, J. J. McNally, T. W. Lovenberg, A. B. Reitz, N. M. Willard, D. H. Nepomuceno, S. J. Wilson, J. J. Crouke, D. Rosenthal, A. H. Vaidya, S. L. Dax, *J. Med. Chem.* **2000**, *43*, 346.  
 J. P. Sanchez, R. D. Gogliotti, J. M. Domagala, S. J. Gracheck, M. D. Huband, J. A. Sesnie, M. A. Cohen, M. A. Shapiro, *J. Med. Chem.* **1995**, *38*, 4478.  
 J. P. Sanchez, A. J. Bridges, R. Bucsh, J. M. Domagala, R. D. Gogliotti, S. E. Hagen, C. L. Heifetz, E. T. Joannides, J. C. Sesnie, M. A. Shapiro, D. L. Szotek, *J. Med. Chem.* **1992**, *35*, 361.  
 T. Rosen, D. T. W. Chu, I. M. Lico, P. B. Fernandes, L. Shen, S. Borodkin, A. G. Pernet, *J. Med. Chem.* **1988**, *31*, 1586.

## Racemic Compounds

<b>E0431</b> 5g	<b>A1104</b> 5g 25g	<b>A1055</b> 5g 25g	<b>M1106</b> 5g 25g
			
3-(Ethylamino)pyrrolidine [111390-22-8]	3-Aminopyrrolidine [79286-79-6]	3-Aminopyrrolidine Dihydrochloride [103831-11-4]	3-(Methylamino)pyrrolidine [83030-08-4]
<b>A1108</b> 5g 25g	<b>T1247</b> 10g	<b>B1358</b> 5g 25g	<b>D1859</b> 10g 25g
			
3-Acetamidopyrrolidine [79286-74-1]	3-(Trifluoroacetamido)- pyrrolidine Hydrochloride [84424-06-6]	3-( <i>tert</i> -Butoxycarbonyl- amino)pyrrolidine [99724-19-3]	3-(Dimethylamino)- pyrrolidine [69478-75-7]
<b>D1857</b> 5g 25g	<b>A1113</b> 5g	<b>M1096</b> 5g 25g	<b>B3890</b> 1g 5g
			
3-(Diethylamino)pyrrolidine [20984-81-0]	3-( <i>N</i> -Acetyl- <i>N</i> -ethyl- amino)pyrrolidine [115445-29-9]	3-( <i>N</i> - <i>tert</i> -Butoxycarbonyl- <i>N</i> -methylamino)pyrrolidine [172478-00-1]	3-Amino-1-( <i>tert</i> - butoxycarbonyl)pyrrolidine [186550-13-0]
<b>B1558</b> 5g 25g	<b>B1560</b> 5g	<b>B1355</b> 25g	<b>B1356</b> 25g
			
1-Benzyl-3-(methylamino)- pyrrolidine [96568-35-3]	1-Benzyl-3-(ethylamino)- pyrrolidine [115445-21-1]	1-Benzyl- 3-acetamidopyrrolidine [28506-01-6]	1-Benzyl-3-(trifluoro- acetamido)pyrrolidine [115445-23-3]
			<b>B1357</b> 10g
			
			1-Benzyl-3-( <i>tert</i> -butoxycarbonyl- amino)pyrrolidine [99735-30-5]



## Chiral Compounds



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