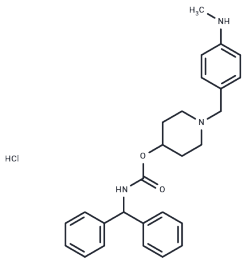
Data Sheet (Cat.No.T13372)

TargetMol

YM-58790 hydrochloride

Chemical Properties



CAS No. : 214558-72-2

Formula: C27H32ClN3O2

Molecular Weight: 466.02

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	YM-58790 is a potent M3 muscarinic receptor antagonist(Ki of 15 nM).
Targets(IC50)	Others,AChR
In vitro	In vitro, YM-58790 exhibits selective antagonism between urinary bladder contraction and salivary secretion .
In vivo	In pithed rats, The effect of YM-58790 on McN-A343-induced pressor, as an indication of M1 antagonism in vivo, is much less potent than bladder contraction. YM-58790 exhibits potent inhibitory activity on bladder pressuer in reflexly-evoked rhythmic contraction, similar to oxybutynin, and has appr ten times less inhibitory effect on oxotremorine-induced salivary secretion than oxybutynin in rats.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1458 mL	10.7292 mL	21.4583 mL
5 mM	0.4292 mL	2.1458 mL	4.2917 mL
10 mM	0.2146 mL	1.0729 mL	2.1458 mL
50 mM	0.0429 mL	0.2146 mL	0.4292 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Naito R, et al. Selective muscarinic antagonists. I. Synthesis and antimuscarinic properties of 4-piperidyl benzhydrylcarbamate derivatives. Chem Pharm Bull (Tokyo). 1998 Aug;46(8):1274-85.

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