
Product Data Sheet

Product Name: YM-58790

Cat. No.: GC30426

Chemical Properties

Cas. No. 214558-72-2

SMILES O=C(OC1CCN(CC2=CC=C(NC)C=C2)CC1)NC(C3=CC=CC=C3)C4=CC=CC=C4.[H]ClFormula C₂₇H₃₂ClN₃O₂ M.Wt 466.01

Solubility DMSO : 100 mg/mL (214.59 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

YM-58790 is a potent antagonist of M3 muscarinic receptor, with Ki of 15 nM.

YM-58790 shows potent inhibitory effect on urinary bladder contraction, but has little effect on bradycardia. YM-58790 exhibits selective antagonism between urinary bladder contraction and salivary secretion in vitro[1].

YM-58790 (3 mg/kg, i.v.) does not inhibit oxotremorine-induced tremor in mice. The effect of YM-58790 on McN-A343-induced pressor in pithed rats, 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[1].

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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