

YM44778

Chemical Properties

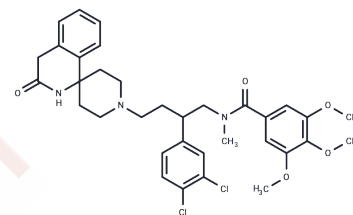
CAS No. : 173941-74-7

Formula: C₃₄H₃₉Cl₂N₃O₅

Molecular Weight: 640.6

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	YM44778 is a NK1-receptor antagonist for treating restless legs syndrome.
Targets(IC50)	Others, Neurokinin receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.561 mL	7.8052 mL	15.6104 mL
5 mM	0.3122 mL	1.561 mL	3.1221 mL
10 mM	0.1561 mL	0.7805 mL	1.561 mL
50 mM	0.0312 mL	0.1561 mL	0.3122 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

Choppin A, Groke G, Bringas A, Stepan G, Dillon MP. Effect of YM-44781, YM-44778 and YM-49598, novel tachykinin antagonists, in a drug-induced bladder contraction model. *Pharmacology*. 2002 May;65(2):96-102. PubMed PMID: 11937780.

Kubota H, Kakefuda A, Okamoto Y, Fujii M, Yamamoto O, Yamagiwa Y, Orita M, Ikeda K, Takeuchi M, Shibamura T, Isomura Y. Spiro-substituted piperidines as neurokinin receptor antagonists. III. Synthesis of (+/-)-N-[2-(3,4-dichlorophenyl)-4-(spiro-substituted piperidin-1'-yl)butyl]-N-methylbenzamides and evaluation of NK1-NK2 dual antagonistic activities. *Chem Pharm Bull (Tokyo)*. 1998 Oct;46(10):1538-44. PubMed PMID: 9810691.

Walden PD, Marinese D, Srinivasan D, Tzoumaka E, Syong HT, Ford AP, Bhattacharya A. Effect of neurokinins on canine prostate cell physiology. *Prostate*. 2005 Jun 1;63(4):358-68. PubMed PMID: 15611996.

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