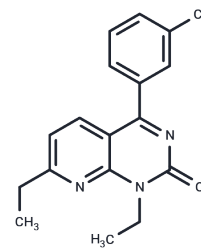


YM976

Chemical Properties

CAS No. : 191219-80-4
 Formula: C₁₇H₁₆ClN₃O
 Molecular Weight: 313.78
 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	YM976 is an orally active PDE4 inhibitor (IC ₅₀ :2.2 nM)
Targets(IC ₅₀)	PDE

Solubility Information

Solubility	DMSO: 3.14 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1869 mL	15.9347 mL	31.8695 mL
5 mM	0.6374 mL	3.1869 mL	6.3739 mL
10 mM	0.3187 mL	1.5935 mL	3.1869 mL
50 mM	0.0637 mL	0.3187 mL	0.6374 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

Aoki M , Kobayashi M , Ishikawa J , et al. A Novel Phosphodiesterase Type 4 Inhibitor, YM976 (4-(3-Chlorophenyl)-1,7-diethylpyrido[2,3-d]pyrimidin-2(1H)-one), with Little Emetogenic Activity[J]. Journal of Pharmacology & Experimental Therapeutics, 2000, 295(1):255-260.

Aoki M , Yamamoto S , Kobayashi M , et al. Antiasthmatic effect of YM976, a novel PDE4 inhibitor, in guinea pigs[J]. Journal of Pharmacology and Experimental Therapeutics, 2001, 297(1):165-173.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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