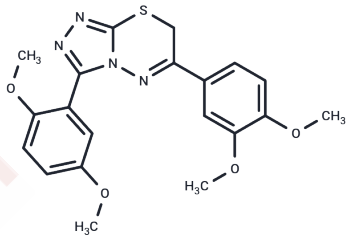
Data Sheet (Cat.No.T5496)

TargetMol

ML-030

Chemical Properties



CAS No. : 1013750-77-0

Formula: C20H20N4O4S

Molecular Weight: 412.46

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	ML-030 is a potent and selective inhibitor of PDE4(PDE4A, PDE4A1, PDE4B1, PDE4B2, PDE4C1,and PDE4D2 with IC50 of 6.7 nM, 12.9 nM, 48.2 nM, 37.2 nM, 452 nM and 49.2 nM, respectively)
Targets(IC50)	PDE

Solubility Information

Solubility	DMSO: 45 mg/mL (109.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.85 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4245 mL	12.1224 mL	24.2448 mL
5 mM	0.4849 mL	2.4245 mL	4.849 mL
10 mM	0.2424 mL	1.2122 mL	2.4245 mL
50 mM	0.0485 mL	0.2424 mL	0.4849 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

Skoumbourdis AP, et al. Exploration and optimization of substituted triazolothiadiazines and triazolopyridazines as PDE4 inhibitors. Bioorg Med Chem Lett. 2009 Jul 1;19(13):3686-92.

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