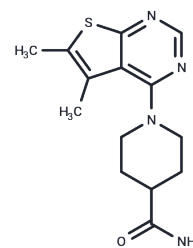


M4 mAChR agonist-1

Chemical Properties

CAS No. :	785705-53-5
Formula:	C ₁₄ H ₁₈ N ₄ O ₅
Molecular Weight:	290.38
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	M4 mAChR agonist-1 (4-Piperidinecarboxamide, 1-(5,6-dimethylthieno[2,3-d]pyrimidin-4-yl)-) is an effective agonist of M4 mAChR (EC ₅₀ >10 μM).
Targets(IC ₅₀)	AChR

Solubility Information

Solubility	DMSO: 1.45 mg/mL (4.99 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	3.4438 mL	17.2188 mL	34.4376 mL
5 mM	0.6888 mL	3.4438 mL	6.8875 mL
10 mM	0.3444 mL	1.7219 mL	3.4438 mL
50 mM	0.0689 mL	0.3444 mL	0.6888 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

Wood MR, et al. Discovery and optimization of a novel series of highly CNS penetrant M4 PAMs based on a 5,6-dimethyl-4-(piperidin-1-yl)thieno[2,3-d]pyrimidine core. Bioorg Med Chem Lett. 2016;26(13):3029-3033.

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