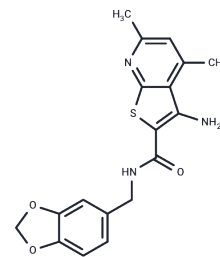


VU0152099

Chemical Properties

CAS No. :	612514-42-8
Formula:	C ₁₈ H ₁₇ N ₃ O ₃ S
Molecular Weight:	355.41
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	VU0152099 is a potent and selective M4 mAChR allosteric potentiator (EC ₅₀ = 380 ± 93 nM).
Targets(IC50)	AChR

Solubility Information

Solubility	DMSO: 75 mg/mL (211.02 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 (5.63 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8137 mL	14.0683 mL	28.1365 mL
5 mM	0.5627 mL	2.8137 mL	5.6273 mL
10 mM	0.2814 mL	1.4068 mL	2.8137 mL
50 mM	0.0563 mL	0.2814 mL	0.5627 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

Brady A E , Jones C K , Bridges T M , et al. Centrally Active Allosteric Potentiators of the M4 Muscarinic Acetylcholine Receptor Reverse Amphetamine-Induced Hyperlocomotor Activity in Rats[J]. Journal of Pharmacology & Experimental Therapeutics, 2008, 327(3):941-953.

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