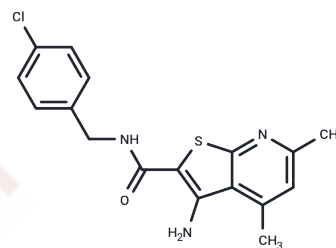


VU10010

Chemical Properties

CAS No. : 633283-39-3
 Formula: C₁₇H₁₆ClN₃O₂
 Molecular Weight: 345.85
 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	VU10010 (VU 10010) is allosteric potentiator of M4 acetylcholine receptors.
Targets(IC50)	AChR

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (144.57 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 (5.78 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	2.8914 mL	14.4571 mL	28.9143 mL
5 mM	0.5783 mL	2.8914 mL	5.7829 mL
10 mM	0.2891 mL	1.4457 mL	2.8914 mL
50 mM	0.0578 mL	0.2891 mL	0.5783 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

Odagaki Y , Kinoshita M , Toyoshima R . Functional activation of G-proteins coupled with muscarinic acetylcholine receptors in rat brain membranes.[J]. Journal of Pharmacological Sciences, 2014, 125(2):157.

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