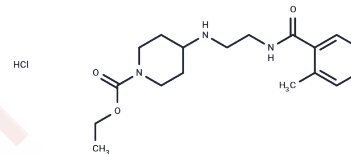


VU0357017 hydrochloride

Chemical Properties

CAS No. :	1135242-13-5
Formula:	C ₁₈ H ₂₈ ClN ₃ O ₃
Molecular Weight:	369.89
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	VU0357017 hydrochloride (ML071 hydrochloride) is highly selective M1 agonists act at an allosteric site to activate the receptor (EC ₅₀ : 477 ± 172 nM; Pec ₅₀ : 6.37 ± 0.15).
Targets(IC ₅₀)	AChR

Solubility Information

Solubility	DMSO: 33 mg/mL (89.22 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 (5.41 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	2.7035 mL	13.5175 mL	27.0351 mL
5 mM	0.5407 mL	2.7035 mL	5.407 mL
10 mM	0.2704 mL	1.3518 mL	2.7035 mL
50 mM	0.0541 mL	0.2704 mL	0.5407 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

Digby GJ, et al. ACS Chem Neurosci. 2012 Dec 19;3(12):1025-36.

Chen J, Liu Y, Su M, et al. The Aggregation of α -Synuclein in the Dorsomedial Striatum Significantly Impairs Cognitive Flexibility in Parkinson's Disease Mice. Biomedicines. 2024, 12(8): 1634.

Lebois EP, et al. ACS Chem Neurosci. 2010;1(2):104-121.

Digby GJ, et al. J Neurosci. 2012 Jun 20;32(25):8532-44.

Sheffler DJ, et al. Bioorg Med Chem Lett. 2013 Jan 1;23(1):223-7.

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