

(-)-(S)-B-973B

## Chemical Properties

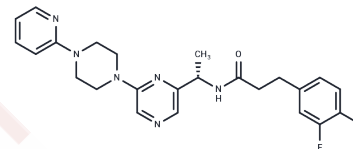
CAS No. : 2244989-34-0

Formula: C<sub>24</sub>H<sub>26</sub>F<sub>2</sub>N<sub>6</sub>O

Molecular Weight: 452.5

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	(-)-(S)-B-973B is an effective allosteric agonist and positive allosteric modulator of $\alpha 7$ nAChR.
Targets(IC50)	AChR

## Solubility Information

Solubility	DMSO: 65 mg/mL (143.65 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 (4.42 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	2.2099 mL	11.0497 mL	22.0994 mL
5 mM	0.442 mL	2.2099 mL	4.4199 mL
10 mM	0.221 mL	1.105 mL	2.2099 mL
50 mM	0.0442 mL	0.221 mL	0.442 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

Garai S, et al. B-973, a Novel  $\alpha 7$  nAChR Ago-PAM: Racemic and Asymmetric Synthesis, Electrophysiological Studies, and in Vivo Evaluation. ACS Med Chem Lett. 2018 Oct 11;9(11):1144-1148.

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