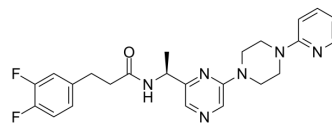


(-)-(S)-B-973B

Cat. No.:	HY-114269		
CAS No.:	2244989-34-0		
Molecular Formula:	C ₂₄ H ₂₆ F ₂ N ₆ O		
Molecular Weight:	452.5		
Target:	nAChR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 67.5 mg/mL (149.17 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.2099 mL	11.0497 mL	22.0994 mL
	5 mM	0.4420 mL	2.2099 mL	4.4199 mL
	10 mM	0.2210 mL	1.1050 mL	2.2099 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.25 mg/mL (4.97 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.25 mg/mL (4.97 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.25 mg/mL (4.97 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	(-)-(S)-B-973B is a potent allosteric agonist and positive allosteric modulator of α7 nAChR, with antinociceptive activity ^[1] .
IC₅₀ & Target	α7 nAChR ^[1]

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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