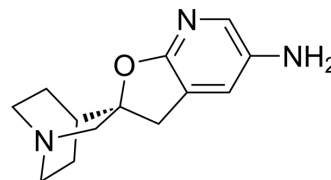


$\alpha 7$ Nicotinic receptor agonist-1

Cat. No.:	HY-148325
CAS No.:	220100-05-0
Molecular Formula:	C ₁₃ H ₁₇ N ₃ O
Molecular Weight:	231.29
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (432.36 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	4.3236 mL	21.6179 mL	43.2358 mL
				5 mM	0.8647 mL	4.3236 mL	8.6472 mL
				10 mM	0.4324 mL	2.1618 mL	4.3236 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: \geq 2.08 mg/mL (8.99 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.08 mg/mL (8.99 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	$\alpha 7$ Nicotinic receptor agonist-1 (Preparation 5) is an $\alpha 7$ nAChR agonist. $\alpha 7$ Nicotinic receptor agonist-1 can be used in studies of psychiatric disorders (such as schizophrenia, manic or hypomanic depression and anxiety disorders) and intellectual disorders (such as alzheimer's disease, learning deficits, cognitive deficits, attention deficits, memory loss, lewy body dementia and attention deficit hyperactivity disorder) ^[1] .
IC ₅₀ & Target	$\alpha 7$ nAChR ^[1] .

REFERENCES

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

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