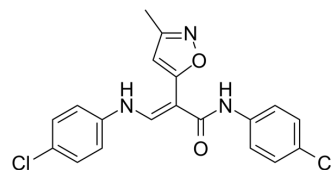


CCMI

Cat. No.:	HY-12150
CAS No.:	917837-54-8
Molecular Formula:	C ₁₉ H ₁₅ Cl ₂ N ₃ O ₂
Molecular Weight:	388.25
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (257.57 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.5757 mL	12.8783 mL	25.7566 mL
		5 mM	0.5151 mL	2.5757 mL	5.1513 mL
	10 mM	0.2576 mL	1.2878 mL	2.5757 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: ≥ 2.08 mg/mL (5.36 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.36 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	CCMI (AVL-3288) is a potent and selective $\alpha 7$ nAChR-positive allosteric modulator, does not bind to or activate $\alpha 7$ nAChRs via the orthosteric site, and causes significant positive modulation of agonist-induced currents at $\alpha 7$ nAChRs. CCMI has potential in CNS diseases with cognitive dysfunction ^[1] .
IC ₅₀ & Target	$\alpha 7$ nAChR ^[1]
In Vitro	CCMI (Compound 6) is a potent and selective $\alpha 7$ nAChR-positive allosteric modulator, does not bind to or activate $\alpha 7$ nAChRs via the orthosteric site, and causes significant positive modulation of agonist-induced currents at $\alpha 7$ nAChRs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ng HJ, et al. Nootropic alpha7 nicotinic receptor allosteric modulator derived from GABAA receptor modulators. Proc Natl Acad Sci U S A. 2007 May 8;104(19):8059-64. Epub 2007 Apr 30.

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

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