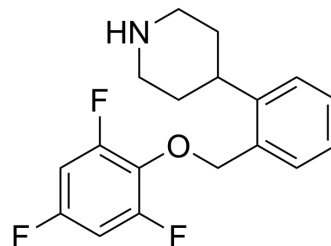


Ampreloxetine

Cat. No.:	HY-119541	
CAS No.:	1227056-84-9	
Molecular Formula:	C ₁₈ H ₁₈ F ₃ NO	
Molecular Weight:	321.34	
Target:	5-HT Receptor; Adrenergic Receptor	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	Pure form	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (311.20 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.1120 mL	15.5598 mL	31.1197 mL
		5 mM	0.6224 mL	3.1120 mL	6.2239 mL
10 mM		0.3112 mL	1.5560 mL	3.1120 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: 2.5 mg/mL (7.78 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.78 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Ampreloxetine (TD-9855) is a potent and orally active norepinephrine (NE) and serotonin 5-HT inhibitor. Ampreloxetine has the potential for the research of neurogenic orthostatic hypotension ^{[1][2]} .
IC ₅₀ & Target	5-HT Receptor
In Vivo	Ampreloxetine (0.3, 1, 5, 10, 30, 60 mg/kg; p.o.; single dose) shows a plasma EC ₅₀ s of 11.7ng/mL and 50.8ng/mL in rat, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague Dawley rats ^[1]
Dosage:	0.3, 1, 5, 10, 30, 60 mg/kg
Administration:	P.o.; single dose
Result:	Showed good PK and PD parameter with E _{max} of 79%, 92% for SERT and NET, respectively; EC ₅₀ values of 50.8, 11.7 ng/mL for SERT, NET, respectively.

REFERENCES

[1]. Smith JA, et al. Preclinical to clinical translation of CNS transporter occupancy of TD-9855, a novel norepinephrine and serotonin reuptake inhibitor. *Int J Neuropsychopharmacol.* 2014 Dec 13;18(2):pyu027.

[2]. Kaufmann H, et al. Safety and efficacy of amprelosetine in symptomatic neurogenic orthostatic hypotension: a phase 2 trial. *Clin Auton Res.* 2021 Dec;31(6):699-711.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA