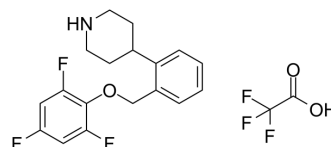


Amprelosetine TFA

Cat. No.:	HY-119541A
CAS No.:	1227056-85-0
Molecular Formula:	C ₂₀ H ₁₉ F ₆ NO ₃
Molecular Weight:	435.36
Target:	5-HT Receptor; Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°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 (229.69 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2969 mL	11.4847 mL	22.9695 mL	
		5 mM	0.4594 mL	2.2969 mL	4.5939 mL	
		10 mM	0.2297 mL	1.1485 mL	2.2969 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 (5.74 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.74 mM); Clear solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.74 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Amprelosetine (TD-9855) TFA is a potent and orally active norepinephrine (NE) and serotonin 5-HT inhibitor. Amprelosetine TFA has the potential for the research of neurogenic orthostatic hypotension ^{[1][2]} .	
In Vivo	Amprelosetine (0.3, 1, 5, 10, 30, 60 mg/kg; p.o.; single dose) TFA 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

Dosage:	0.3, 1, 5, 10, 30, 60 mg/kg
Administration:	P.o.; single dose
Result:	Showed good PK and PD parameter with Emax 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.

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