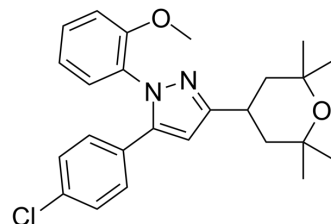


Cav 2.2 blocker 1

Cat. No.:	HY-119373		
CAS No.:	1567335-29-8		
Molecular Formula:	C ₂₅ H ₂₉ ClN ₂ O ₂		
Molecular Weight:	424.96		
Target:	Calcium Channel		
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 : 20.83 mg/mL (49.02 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3532 mL	11.7658 mL	23.5316 mL
		5 mM	0.4706 mL	2.3532 mL	4.7063 mL
10 mM		0.2353 mL	1.1766 mL	2.3532 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: ≥ 2.08 mg/mL (4.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.89 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Cav 2.2 blocker 1 (compound 9) is a N-type calcium channel (Cav 2.2) blocker for the treatment of pain, with an IC ₅₀ of 1 nM [1].
IC₅₀ & Target	IC50: 1 nM (Cav 2.2)[1].

CUSTOMER VALIDATION

-
- Cell Rep. 2021 Nov 2;37(5):109931.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wall MJ, et al. Discovery and optimization of a novel series of pyrazolyltetrahydropyran N-type calcium channel (Cav 2.2) blockers for the treatment of pain. Bioorg Med Chem Lett. 2018 Dec 15;28(23-24):3780-3783.

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