Cav 2.2 blocker 2

Cat. No.: HY-132268

CAS No.: 1204535-44-3

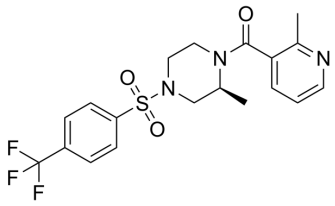
Molecular Formula: $C_{19}H_{20}F_3N_3O_3S$

Molecular Weight: 427.44

Target: Calcium Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (233.95 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3395 mL	11.6975 mL	23.3951 mL
	5 mM	0.4679 mL	2.3395 mL	4.6790 mL
	10 mM	0.2340 mL	1.1698 mL	2.3395 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 (5.85 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.85 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cav 2.2 blocker 2 is a Cav2.2 calcium channel blocker extracted from patent WO2017046581A1, compound 1. Cav 2.2 blocker 2 can reverses hyperalgesia associated with an injury or inflammation in conjunction with the opioid[1].

IC_{50} & Target

N-type calcium channel

In Vitro

Cav 2.2 blocker 2 (compound 1) (1-10 mg/kg; p.o.) in conjunction with Morphine (0.3 mg/kg) reverses the complete freunds adjuvant (CFA) induced hyperalgesia in rats[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ali Z, et, al. Composition comprising cav2.2 calcium channel blocker and opioid. WO2017046581A1.

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