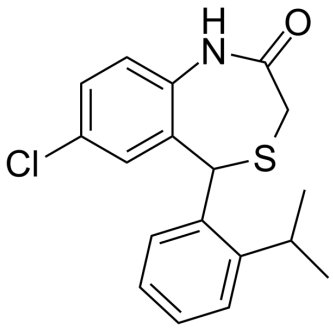
ITH12575

Cat. No.:	HY-117073
CAS No.:	1802013-08-6
Molecular Formula:	$C_{18}H_{18}ClNOS$
Molecular Weight:	331.86
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (150.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0133 mL	15.0666 mL	30.1332 mL
	5 mM	0.6027 mL	3.0133 mL	6.0266 mL
	10 mM	0.3013 mL	1.5067 mL	3.0133 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.53 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ITH12575, a CGP37157 derivative, is a potent and selective mNCX blocker. ITH12575 reduces Ca^{2+} influx through CALHM1 at low micromolar concentrations[1][2].

REFERENCES

[1]. Francisco J Martínez-Sanz, et al. Benzothiazepine CGP37157 Analogues Exert Cytoprotection in Various in Vitro Models of Neurodegeneration. ACS Chem Neurosci. 2015 Sep 16;6(9):1626-36.

[2]. Ana J Moreno-Ortega, et al. Benzothiazepine CGP37157 and its 2'-isopropyl analogue modulate Ca2+ entry through CALHM1. Neuropharmacology. 2015 Aug;95:503-10.

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

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