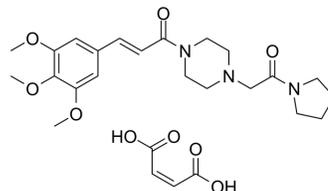


Cinepazide Maleate

Cat. No.:	HY-66010
CAS No.:	26328-04-1
Molecular Formula:	C ₂₆ H ₃₅ N ₃ O ₉
Molecular Weight:	533.57
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; 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 (187.42 mM; Need ultrasonic)
H₂O : 50 mg/mL (93.71 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.8742 mL	9.3708 mL	18.7417 mL
	5 mM	0.3748 mL	1.8742 mL	3.7483 mL
	10 mM	0.1874 mL	0.9371 mL	1.8742 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (187.42 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.75 mg/mL (5.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.75 mg/mL (5.15 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.75 mg/mL (5.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cinepazide Maleate (MD-67350) is a piperazine derivative and acts as a weak calcium channel blocker. Cinepazide Maleate is a potent vasodilator and can be used for the research of cerebrovascular diseases, including ischemic stroke, brain infarct et. al^[1].

In Vivo

Cinepazide Maleate (intravenous injection; 30 mg/kg) potentiates the vertebral vasodilator response of dogs to intravertebral adenosine and cyclic AMP, while cinnarizine reduces their vasodilator effects^[1].

Cinepazide Maleate (intravertebral injection; 1-10 mg/kg) increases vertebral blood flow in a dose-related manner in dogs^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Akashi, A., et al., [Cardiovascular pharmacology of cinepazide, a new cerebral vasodilator (author's transl)]. Nihon Yakurigaku Zasshi, 1979. 75(5): p. 507-16.
- [2]. Jun Ni , et al. Efficacy and safety of cinepazide maleate injection in patients with acute ischemic stroke: a multicenter, randomized, double-blind, placebo-controlled trial. BMC Neurol. 2020 Jul 14;20(1):282.
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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