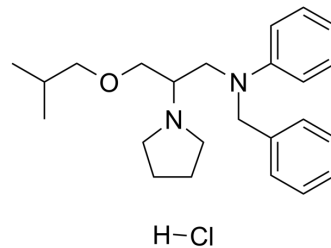


Bepidil hydrochloride

Cat. No.:	HY-103315
CAS No.:	68099-86-5
Molecular Formula:	C ₂₄ H ₃₅ ClN ₂ O
Molecular Weight:	403
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	-20°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 : 125 mg/mL (310.17 mM; Need ultrasonic)					
	H ₂ O : 12.5 mg/mL (31.02 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.4814 mL	12.4069 mL	24.8139 mL
			5 mM	0.4963 mL	2.4814 mL	4.9628 mL
10 mM			0.2481 mL	1.2407 mL	2.4814 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (62.03 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.16 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.16 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.16 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Bepidil hydrochloride (CERM 1978) is a calcium channel blocker, with antianginal activity.
IC ₅₀ & Target	Calcium channel ^[1]
In Vitro	Bepidil hydrochloride is a calcium channel blocker, with antianginal activity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Bepidil hydrochloride (21 mg/kg) reduces heart rate and mean arterial pressure, decreases the mean coronary vascular resistance and increases stroke volume in rats^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Eur J Pharm Sci. 2023 May 22;106475.
- Eur J Pharm Sci. 2021, 105889.
- Virology. 2020 Jan 2;539:38-48.
- Virology. 2020 Jan 2;539:38-48.
- Università Vita-Salute San Raffaele. 2022 Apr 08. 34.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Flaim SF, et al. Effects of bepidil hydrochloride on cardiocirculatory dynamics, coronary vascular resistance, and cardiac output distribution in normal, conscious rats. J Cardiovasc Pharmacol. 1988 Mar;11(3):363-72.

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