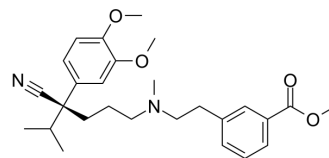


Etripamil

Cat. No.:	HY-17611		
CAS No.:	1593673-23-4		
Molecular Formula:	C ₂₇ H ₃₆ N ₂ O ₄		
Molecular Weight:	452.59		
Target:	Calcium Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 120 mg/mL (265.14 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2095 mL	11.0475 mL	22.0951 mL
	5 mM	0.4419 mL	2.2095 mL	4.4190 mL
	10 mM	0.2210 mL	1.1048 mL	2.2095 mL

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

In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3 mg/mL (6.63 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3 mg/mL (6.63 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 3 mg/mL (6.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Etripamil (MSP-2017) is a short-acting L-type calcium-channel antagonist, can be used for the research of Paroxysmal Supraventricular Tachycardia (PSVT). Etripamil (MSP-2017) slows atrioventricular nodal conduction and prolongs atrioventricular nodal refractory periods by inhibiting calcium ion influx through the calcium slow channels in the atrioventricular node cells^{[1][2]}.

IC₅₀ & Target

L-type calcium channel

REFERENCES

- [1]. Stambler BS, et al. Etripamil Nasal Spray for Rapid Conversion of Supraventricular Tachycardia to Sinus Rhythm. J Am Coll Cardiol. 2018 Jul 31;72(5):489-497.
- [2]. Milestone Pharmaceuticals Announces USAN Approval of Generic Name "Etripamil" for its Phase 2 Clinical Development Product for the Treatment of Paroxysmal Supraventricular Tachycardia.
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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