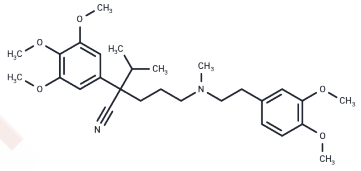
Data Sheet (Cat.No.T11353)

TargetMol

Gallopamil

Chemical Properties



CAS No. : 16662-47-8

Formula: C28H40N2O5

Molecular Weight: 484.63

Appearance: no data available

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Gallopamil (Methoxyverapamil) inhibits acid secretion in a concentration-dependent manner with an IC50 of 10.9 μM. Gallopamil is a potent antiarrhythmic and vasodilator agent. Gallopamil (Methoxyverapamil), a methoxy derivative of Verapamil, is a phenylalkylamine calcium antagonist.
Targets(IC50)	Calcium Channel
In vivo	Gallopamil(5 min) significantly reduces systolic and diastolic blood pressure measured without markedly influencing heart rate. Gallopamil (0.2 mg/kg;i.v.) markedly reduces ventricular tachycardia (VT) and totally prevents fibrillation (VF)[2].

Solubility Information

Solubility	DMSO: 95 mg/mL (196.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0634 mL	10.3171 mL	20.6343 mL
5 mM	0.4127 mL	2.0634 mL	4.1269 mL
10 mM	0.2063 mL	1.0317 mL	2.0634 mL
50 mM	0.0413 mL	0.2063 mL	0.4127 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Sewing KF, et al. Calcium channel antagonists verapamil and gallopamil are powerful inhibitors of acid secretion in isolated and enriched guinea pig parietal cells. Pharmacology. 1983;27(1):9-14.
Kirchengast M, et al. Reperfusion arrhythmias in closed-chest rats: the effect of myocardial noradrenaline depletion and Ca2(+)-antagonism. Clin Exp Pharmacol Physiol. 1991 Apr;18(4):217-21.
Brogden RN, et al. Gallopamil. A review of its pharmacodynamic and pharmacokinetic properties, and therapeutic potential in ischaemic heart disease. Drugs. 1994 Jan;47(1):93-115.

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