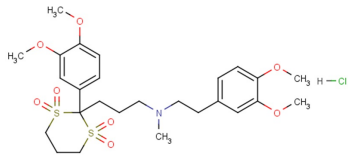
Data Sheet (Cat.No.T13154)

TargetMol
A DRUG SCREENING EXPERT

Tiapamil hydrochloride

Chemical Properties



CAS No.:	57010-32-9
Formula:	C26H38ClNO8S2
Molecular Weight:	592.16
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tiapamil hydrochloride is a blocker of calcium channel.
Targets(IC_{50})	Calcium channel: None
In vitro	Tiapamil is a new calcium antagonist. Tiapamil is a new verapamil congener.Without precipitating left ventricular failure, Tiapamil reduced afterload and heart rate and maintained cardiac index while apparently improving diastolic compliance[1]. Tiapamil is a new calcium channel blocking agent with anti-anginal efficacy[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.689 mL	8.444 mL	16.887 mL
5 mM	0.338 mL	1.689 mL	3.377 mL
10 mM	0.169 mL	0.844 mL	1.689 mL
50 mM	0.034 mL	0.169 mL	0.338 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Eichler HG, et al. Tiapamil, a new calcium antagonist: hemodynamic effects in patients with acute myocardial infarction. Circulation. 1985 Apr;71(4):779-86.

2. Khurmi NS, et al. Tiapamil, a new calcium channel blocking agent for the treatment of effort induced chronic stableangina pectoris.

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