SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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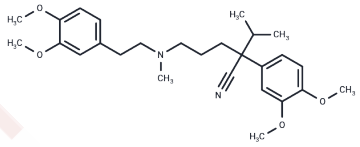
Data Sheet (Cat.No.T20656)

TargetMol

Verapamil

Chemical Properties



CAS No. : 52-53-9

Formula: C27H38N2O4

Molecular Weight: 454.6

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Verapamil (CP-16533-1) is a calcium channel blocker and an orally active and effective inhibitor of P-gp. Verapamil inhibits CYP3A4 and can be used in studies about the treatment of high blood pressure, heart arrhythmias, and angina research.
Targets(IC50)	P450,Calcium Channel,P-gp
In vitro	Verapamil inhibits the EverFluor FL Verapamil (EFV) uptake by TR-iBRB2 cells with an IC50 of 98.0 μM in a concentration-dependent manner[1].
In vivo	Verapamil (1 mg/kg;i.v.) significantly decreases the incidence of ventricular arrhythmias including premature ventricular contractions (PVC), ventricular tachycardia (VT) and ventricular fibrillation (VF) for 45-min coronary artery occlusion. Total arrhythmia scores are significantly increased when the heart is subjected to ischemia. Verapamil (1 mg/kg) significantly prevents the enhancement of total arrhythmia scores induced by ischemia [3]. Verapamil(oral) is useful for the prophylaxis of atrioventricular reentry tachycardia, and also in modulating the atrioventricular nodal response in atrial fibrillation[4].

Solubility Information

Solubility	DMSO: 45 mg/mL (98.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1997 mL	10.9987 mL	21.9974 mL
5 mM	0.4399 mL	2.1997 mL	4.3995 mL
10 mM	0.220 mL	1.0999 mL	2.1997 mL
50 mM	0.044 mL	0.220 mL	0.4399 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

Pan X, Li R, Guo H, et al. Dihydropyridine Calcium Channel Blockers Suppress the Transcription of PD-L1 by Inhibiting the Activation of STAT1. Frontiers in Pharmacology. 2021 Jan 13;11:539261. doi: 10.3389/fphar.

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