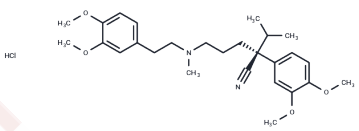
Data Sheet (Cat.No.T13879)

TargetMol

(S)-Verapamil hydrochloride

Chemical Properties



CAS No. : 36622-28-3

Formula: C27H39ClN2O4

Molecular Weight: 491.06

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	(S)-Verapamil hydrochloride is an inhibitor of leukotriene C4 (LTC4) and calcein transport by MRP1,and leads to the death of potentially resistant tumor cells.
Targets(IC50)	Apoptosis,Calcium Channel,Leukotriene Receptor,P-gp
In vitro	(S)-Verapamil hydrochloride potently induces the death of MRP1-transfected BHK-21 cells. (S)-Verapamil hydrochloride is good active form and has the low bioavailability[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0364 mL	10.1821 mL	20.3641 mL
5 mM	0.4073 mL	2.0364 mL	4.0728 mL
10 mM	0.2036 mL	1.0182 mL	2.0364 mL
50 mM	0.0407 mL	0.2036 mL	0.4073 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Perrotton T, et al. (R)- and (S)-verapamil differentially modulate the multidrug-resistant protein MRP1. J Biol Chem. 2007 Oct 26;282(43):31542-8. Epub 2007 Jul 22.

Tannergren C, et al. St John's wort decreases the bioavailability of R- and S-verapamil through induction of the first-pass metabolism. Clin Pharmacol Ther. 2004 Apr;75(4):298-309.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481