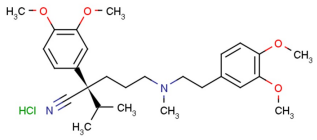
Data Sheet (Cat.No.T13879)

TargetMol
A DRUG SCREENING EXPERT

(S)-Verapamil hydrochloride

Chemical Properties



CAS No.:	36622-28-3
Formula:	C27H39ClN2O4
Molecular Weight:	491.06
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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(IC_{50})	Ca2+: None
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].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.036 mL	10.182 mL	20.364 mL
5 mM	0.407 mL	2.036 mL	4.073 mL
10 mM	0.204 mL	1.018 mL	2.036 mL
50 mM	0.041 mL	0.204 mL	0.407 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. 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.

2. 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.

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