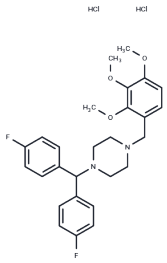
Data Sheet (Cat.No.T6571)

TargetMol

Lomerizine dihydrochloride

Chemical Properties



CAS No. : 101477-54-7

Formula: C27H30F2N2O3·2HCl

Molecular Weight: 541.46

Appearance: no data available

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

Biological Description

Description	Lomerizine dihydrochloride (KB-2796) is an antagonist of L- and T-type voltage-gated calcium channels used to treat migraine.
Targets(IC50)	Calcium Channel
In vitro	Treatment of rat retinal neurons cultured in vitro with 0.1 μM and 1 μM Lomerizine significantly reduced glutamate-induced neurotoxicity.1 μM Lomerizine showed a protective effect against N-methyl-D-aspartic acid- and haemonucleic acid-induced types of neurotoxicity in cultured rat retinal neurons.
In vivo	Treatment of rat retinal neurons cultured in vitro with 0.1 μM and 1 μM Lomerizine significantly reduced glutamate-induced neurotoxicity.1 μM Lomerizine showed a protective effect against N-methyl-D-aspartic acid- and haemonucleic acid-induced types of neurotoxicity in cultured rat retinal neurons.

Solubility Information

Solubility	DMSO: 15 mg/mL (27.7 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 49 mg/mL (90.5 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8469 mL	9.2343 mL	18.4686 mL
5 mM	0.3694 mL	1.8469 mL	3.6937 mL
10 mM	0.1847 mL	0.9234 mL	1.8469 mL
50 mM	0.0369 mL	0.1847 mL	0.3694 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

Toriu N, et al. Exp Eye Res, 2000, 70(4), 475-484.
Fitzgerald M, et al. Invest Ophthalmol Vis Sci, 2009, 50(11), 5456-5462.
Fitzgerald M, et al. Exp Neurol, 2009, 216(1), 219-230.
Tamaki Y, et al. Invest Ophthalmol Vis Sci, 2003, 44(11), 4864-4871.
Toriu N, et al. J Ocul Pharmacol Ther, 2001, 17(2), 131-149.

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