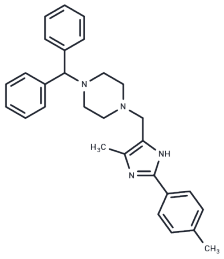
Data Sheet (Cat.No.T27830)

TargetMol

Lifarizine

Chemical Properties



CAS No. : 119514-66-8

Formula: C29H32N4

Molecular Weight: 436.59

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	Lifarizine (RS-87476), a calcium-sodium channel antagonist, shows neuroprotective activity in a simplified rat survival model of double vessel occlusion.
Targets(IC50)	Calcium Channel
In vivo	Verofylline (0.05 mg/kg; oral; asthma patients) subject tolerance was good at the doses used. Dose-response curves for mean forced expiratory volume in one second, peak expiratory flow rate, and forced expiratory flow at the end of 4 hr were greater after 0.05 mg/kg verofylline than after placebo or higher doses of verofylline. Mean percent change in forced vital capacity remained increased as long as 6 hr after 0.15 mg/kg active drug. Verofylline was not very effective as a bronchodilator at the doses used.[1]

Solubility Information

Solubility	DMSO: 5.63 mg/mL (12.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2905 mL	11.4524 mL	22.9048 mL
5 mM	0.4581 mL	2.2905 mL	4.581 mL
10 mM	0.229 mL	1.1452 mL	2.2905 mL
50 mM	0.0458 mL	0.229 mL	0.4581 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

McGivern JG, et al. Actions of the novel neuroprotective agent, lifarizine (RS-87476), on voltage-dependent sodium currents in the neuroblastoma cell line, N1E-115. Br J Pharmacol. 1995;114(8):1738-1744.
MacKinnon AC, et al. [3H]-lifarizine, a high affinity probe for inactivated sodium channels. Br J Pharmacol. 1995; 115(6):1103-1109.
Brown NA, et al. Block of human voltage-sensitive Na+ currents in differentiated SH-SY5Y cells by lifarizine. Br J Pharmacol. 1994;113(2):600-606.
McBean DE, et al. Neuroprotective efficacy of lifarizine (RS-87476) in a simplified rat survival model of 2 vessel occlusion. Br J Pharmacol. 1995;116(8):3093-3098.

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