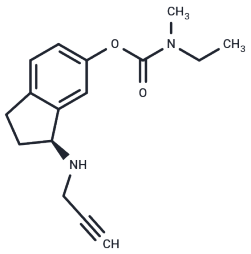
Data Sheet (Cat.No.T77332)

TargetMol

TV 3279

Chemical Properties



CAS No. : 209394-29-6

Formula: C16H20N2O2

Molecular Weight: 272.34

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	TV 3279 is a novel ChE-MAI inhibitor , and the neuroprotective properties depend on their ability to induce the anti-apoptotic proteins PKC, Bcl-2, Bcl-x, and SOD, and to block the nuclear translocation of the pro-apoptotic enzyme glyceraldehyde phosphate dehydrogenase in PC-12 and neuroblastoma cells.
Targets(IC50)	Bcl-2 Family,Cholinesterase (ChE),PKC
In vivo	Chronic TV3279 (26 mg kg-1 for 21 days; rats) similarly inhibited 50% of striatal ChE activity but did not affect MAO activity or amine levels. Accordingly, chronic TV3279 abolished the ability of TCP to initiate L-dopa-induced hyperactivity. In contrast, chronic as well as acute treatments with TV3279 reduced spontaneous motor activity.[2]

Solubility Information

Solubility	DMSO: 2.73 mg/mL (10.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6719 mL	18.3594 mL	36.7188 mL
5 mM	0.7344 mL	3.6719 mL	7.3438 mL
10 mM	0.3672 mL	1.8359 mL	3.6719 mL
50 mM	0.0734 mL	0.3672 mL	0.7344 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

Sterling J, et al. Novel dual inhibitors of AChE and MAO derived from hydroxy aminoindan and phenethylamine as potential treatment for Alzheimer's disease. J Med Chem. 2002;45(24):5260-5279.
Sagi Y, et al. The neurochemical and behavioral effects of the novel cholinesterase-monoamine oxidase inhibitor, ladostigil, in response to L-dopa and L-tryptophan, in rats. Br J Pharmacol. 2005;146(4):553-560.
Weinstock M, et al. Effect of TV3326, a novel monoamine-oxidase cholinesterase inhibitor, in rat models of anxiety and depression. Psychopharmacology (Berl). 2002;160(3):318-324.

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