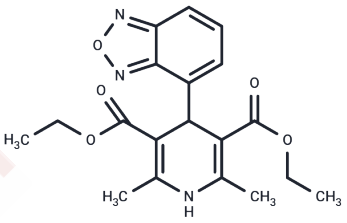
Data Sheet (Cat.No.T15053)

TargetMol

Darodipine

Chemical Properties



CAS No. : 72803-02-2

Formula: C19H21N3O5

Molecular Weight: 371.39

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	Darodipine (PY-108068) is a dihydropyridine type Ca+2 antagonist.
Targets(IC50)	Calcium Channel
In vivo	Darodipine may reduce neuronal cytoskeletal changes occurring in aging and in neurodegenerative disorders. Darodipine (10 mg/kg; 6-month (from the 18th to the 24th month of life); p.o.) treatment restores in part the expression of 200 kDa-NF subunit immunoreactivity in the cerebellar cortex [2]. Treatment with darodipine increases the number and the average length of alkaline phosphatase-reactive capillaries and reduces the intercapillary distance and the diameter of cerebral capillaries in old rats. The pericapillary microrenvironment of the Ammon's horn is the most sensitive to treatment with darodipine [1].

Solubility Information

Solubility	DMSO: 60 mg/mL (161.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6926 mL	13.4629 mL	26.9259 mL
5 mM	0.5385 mL	2.6926 mL	5.3852 mL
10 mM	0.2693 mL	1.3463 mL	2.6926 mL
50 mM	0.0539 mL	0.2693 mL	0.5385 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

Vega JA, et al. Effect of treatment with the dihydropyridine-type calcium antagonist darodipine (PY 108-068) on the expression of neurofilament protein immunoreactivity in the cerebellar cortex of aged rats. Mech Ageing Dev. 1994 Aug;75(2):169-77.

Amenta F, et al. Effect of long-term treatment with the dihydropyridine-type calcium channel blocker darodipine (PY 108-068) on the cerebral capillary network in aged rats. Mech Ageing Dev. 1995 Jan 31;78(1):27-37.