

OPC 8490 free base

Chemical Properties

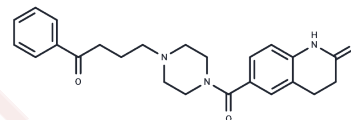
CAS No. : 106752-32-3

Formula: C₂₄H₂₇N₃O₃

Molecular Weight: 405.49

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	OPC 8490 free base is a novel positive inotropic vasodilator and a cardiotonic agent that increases Ca currents in a dose-dependent and reversible manner and can be used to study cardiovascular diseases.
Targets(IC50)	Calcium Channel
In vivo	OPC 8490 free base (0.1, 0.3, and 1 μM/kg) doses given to the jugular vein of supported dogs dose-dependently induced reductions in heart rate and arterial blood pressure in intact supported dogs; OPC 8490 free base (1 μM) temporally induced a three-phase, Ph1 followed by a Ph2 and slight positive (Ph3) time-varying effect and a positive inotropic effect. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4662 mL	12.3308 mL	24.6615 mL
5 mM	0.4932 mL	2.4662 mL	4.9323 mL
10 mM	0.2466 mL	1.2331 mL	2.4662 mL
50 mM	0.0493 mL	0.2466 mL	0.4932 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

Kurachi Y, et al. Voltage-dependent inhibition of the delayed outward potassium current by OPC-8490, a novel positive inotropic agent, in isolated atrial myocytes of guinea-pig heart. *Naunyn Schmiedebergs Arch Pharmacol.* 1990 Apr;341(4):324-30.

Endoh M, et al. Subcellular mechanism of the positive inotropic effect of a new quinolinone derivative OPC-8490 on the dog ventricular myocardium. *Heart Vessels.* 1991;6(3):158-67.

Furukawa Y, et al. Positive inotropic and negative chronotropic effects of OPC-8490, a newly developed cardiotonic, in isolated, blood-perfused canine heart preparations. *Jpn Heart J.* 1989 May;30(3):387-98.

Focaccio A, et al. Mechanism of action of OPC-8490 in human ventricular myocardium. *Circulation.* 1996 Feb 15;93(4):817-25.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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