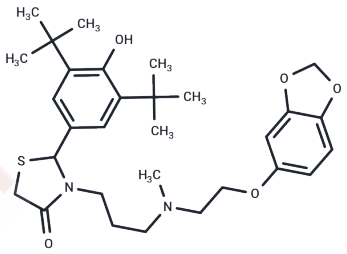
Data Sheet (Cat.No.T10874)

TargetMol

CP-060

Chemical Properties



CAS No. : 180090-15-7

Formula: C30H42N2O5S

Molecular Weight: 542.73

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	CP-060 is a potent Ca2+ antagonist and inhibits Ca2+ overload with antioxidant and cardioprotective activities.
Targets(IC50)	Calcium Channel
In vitro	CP-060 (0.5, 5 μM) inhibits rabbit LDL oxidation (12.9% and 3.0%) induced by soybean lipoxygenase [1].
In vivo	In anesthetized dogs, CP-060 (100 mg/kg, i.v.) increases the coronary blood flow by 96% [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (92.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8425 mL	9.2127 mL	18.4254 mL
5 mM	0.3685 mL	1.8425 mL	3.6851 mL
10 mM	0.1843 mL	0.9213 mL	1.8425 mL
50 mM	0.0369 mL	0.1843 mL	0.3685 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

Kato T, et al. Novel calcium antagonists with both calcium overload inhibition and antioxidant activity. 1. 2-(3, 5-di-tert-butyl-4-hydroxyphenyl)-3-(aminopropyl)thiazolidinones. J Med Chem. 1998 Oct 22;41(22):4309-16.
Kato T, et al. Novel calcium antagonists with both calcium overload inhibition and antioxidant activity. 2. Structure-activity relationships of thiazolidinone derivatives. J Med Chem. 1999 Aug 12;42(16):3134-46.

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