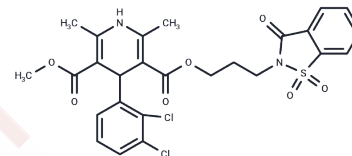


Calcium channel-modulator-1

Chemical Properties

CAS No. : 136941-70-3
 Formula: C₂₆H₂₄Cl₂N₂O₇S
 Molecular Weight: 579.45
 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	Calcium channel-modulator-1, a calcium channel-modulator (IC ₅₀ : 0.8 μM), specializes in blocking aortic constriction.
Targets(IC ₅₀)	Calcium Channel
In vivo	Calcium channel-modulator-1 (20 mg/kg ; p.o.) causes a 35-37% decrease in systolic blood pressure in spontaneously hypertensive rats. However, iv administration of Calcium channel-modulator-1 to anesthetized spontaneously hypertensive rats causes a decrease in blood pressure.[1]

Solubility Information

Solubility	DMSO: 5.8 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.73 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7258 mL	8.6289 mL	17.2577 mL
5 mM	0.3452 mL	1.7258 mL	3.4515 mL
10 mM	0.1726 mL	0.8629 mL	1.7258 mL
50 mM	0.0345 mL	0.1726 mL	0.3452 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

Sunkel CE, et al. Synthesis of 3-[(2,3-dihydro-1,1,3-trioxo-1,2-benzisothiazol-2-yl)alkyl] 1,4-dihydropyridine-3,5-dicarboxylate derivatives as calcium channel modulators. J Med Chem. 1992 ; 35(13):2407-2414.

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