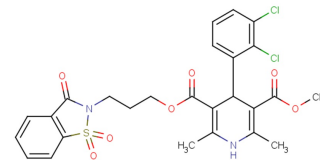


Calcium channel-modulator-1

Chemical Properties

CAS No.:	136941-70-3
Formula:	C ₂₆ H ₂₄ Cl ₂ N ₂ O ₇ S
Molecular Weight:	579.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Calcium channel-modulator-1 is a modulator of calcium channel and blocks aortic contraction (IC ₅₀ : 0.8 µM).
Targets(IC ₅₀)	Aortic contraction: 0.8 µM
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.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.726 mL	8.629 mL	17.258 mL
5 mM	0.345 mL	1.726 mL	3.452 mL
10 mM	0.173 mL	0.863 mL	1.726 mL
50 mM	0.035 mL	0.173 mL	0.345 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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 Jun 26;35(13):2407-14.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481