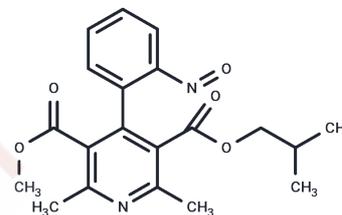


Dehydronitrosonisoldipine

Chemical Properties

CAS No. :	87375-91-5
Formula:	C ₂₀ H ₂₂ N ₂ O ₅
Molecular Weight:	370.4
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Dehydronitrosonisoldipine is an inhibitor of sterile α and TIR motif-containing 1 and can be used in studies about neurodegenerative disorders. Dehydronitrosonisoldipine inhibits axon degeneration and the Vincristine-activated cADPR production in neurons.
Targets(IC50)	Calcium Channel
In vitro	Dehydronitrosonisoldipine exhibits an IC ₅₀ of 4 μ M in the sterile α and TIR motif-containing 1-dN-expression cells, and decreases the cellular cADPR[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (243 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6998 mL	13.4989 mL	26.9978 mL
5 mM	0.540 mL	2.6998 mL	5.3996 mL
10 mM	0.270 mL	1.3499 mL	2.6998 mL
50 mM	0.054 mL	0.270 mL	0.540 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.

Reference

Baranda AB, et al. Instability of calcium channel antagonists during sample preparation for LC-MS-MS analysis of serum samples. *Forensic Sci Int.* 2006 Jan 6;156(1):23-34.

Li WH, et al. Permeant fluorescent probes visualize the activation of SARM1 and uncover an anti-neurodegenerative drug candidate. *Elife.* 2021 May 4;10:e67381.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481