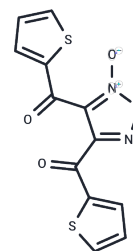


HC-056456

Chemical Properties

CAS No. : 7733-96-2
 Formula: C₁₂H₆N₂O₄S₂
 Molecular Weight: 306.32
 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	HC-056456 (3,4-Bis(2-thienoyl)-1,2,5-oxadiazole-N-oxide) is a CatSper channel modulator.
Targets(IC50)	Others, Calcium Channel

Solubility Information

Solubility	DMSO: 150 mg/mL (489.68 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	3.2646 mL	16.3228 mL	32.6456 mL
5 mM	0.6529 mL	3.2646 mL	6.5291 mL
10 mM	0.3265 mL	1.6323 mL	3.2646 mL
50 mM	0.0653 mL	0.3265 mL	0.6529 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

Carlson AE, Burnett LA, del Camino D, Quill TA, Hille B, Chong JA, Moran MM, Babcock DF. Pharmacological targeting of native CatSper channels reveals a required role in maintenance of sperm hyperactivation. PLoS One. 2009 Aug 31;4(8):e6844.

Zhang J, Gao M, Niu Y, et al. Identification of a Novel Ferroptosis Inducer for Gastric Cancer Treatment Using Drug Repurposing Strategy. Frontiers in Molecular Biosciences. 2022, 9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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