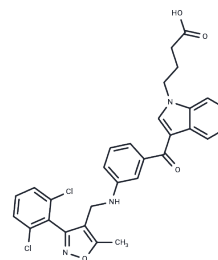


DS16570511

Chemical Properties

CAS No. : 2446154-84-1
 Formula: C₃₀H₂₅Cl₂N₃O₄
 Molecular Weight: 562.44
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DS16570511 is a novel, cell-permeable inhibitor targeting the mitochondrial calcium uniporter. It effectively blocks the increase in Ca ²⁺ influx dependent on MCU or MICU1 [1].
Targets(IC ₅₀)	Calcium Channel
In vitro	DS16570511 effectively inhibits serum-induced mitochondrial Ca ²⁺ (calcium) influx in HEK293A cells in a dose-dependent manner, exhibiting an IC ₅₀ value of 7 μM. Additionally, it suppresses calcium uptake in isolated mitochondria sourced from human cells, rat, and pig hearts.

Solubility Information

Solubility	DMSO: 124 mg/mL (220.47 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	1.778 mL	8.889 mL	17.779 mL
5 mM	0.3556 mL	1.778 mL	3.5559 mL
10 mM	0.1778 mL	0.889 mL	1.778 mL
50 mM	0.0356 mL	0.1778 mL	0.3556 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

Kon N, et al. DS16570511 is a small-molecule inhibitor of the mitochondrial calcium uniporter. Cell Death Discov. 2017 Jul 17;3:17045.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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