

CID 5951923

Chemical Properties

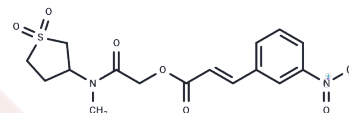
CAS No. : 749872-43-3

Formula: C₁₆H₁₈N₂O₇S

Molecular Weight: 382.39

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	CID 5951923 is an inhibitor of KLF5 transcription factor with an IC ₅₀ of 603 nM.
Targets(IC ₅₀)	DNA/RNA Synthesis,KLF
In vitro	CID 5951923 (10 μM) inhibits the proliferation of cancer cell lines mainly in highly expressing KLF5 cells. CID 5951923 (0.001, 0.01, 0.1, 1, 10, 100 μM) inhibits proliferation of DLD-1 cells in a dose-dependent manner. CID 5951923 (10 μM) significantly decreases endogenous KLF5 levels in the DLD-1 cells, downregulates EGR1, and increases phosphorylation levels of pEGFFpY1068[1].

Solubility Information

Solubility	DMSO: 3.83 mg/mL (10.02 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	2.6151 mL	13.0757 mL	26.1513 mL
5 mM	0.523 mL	2.6151 mL	5.2303 mL
10 mM	0.2615 mL	1.3076 mL	2.6151 mL
50 mM	0.0523 mL	0.2615 mL	0.523 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

Bialkowska AB, et, al. Identification of small-molecule inhibitors of the colorectal cancer oncogene Krüppel-like factor 5 expression by ultrahigh-throughput screening. Mol Cancer Ther. 2011 Nov; 10(11): 2043-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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