

SID 7969543

Chemical Properties

CAS No. : 868224-64-0

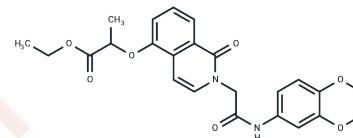
Formula: C₂₄H₂₄N₂O₇

Molecular Weight: 452.46

Store at low temperature

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	SID 7969543 is a selective SF-1 inhibitor with potential anticancer activity, inhibits SF-1-triggered luciferase expression and can be used for cancer research.
Targets(IC50)	Others,Orphan Receptor
In vitro	SID 7969543 is a selective SF-1 (steroidogenic factor 1, NR5A1) inhibitor with an IC50 of 760 nM. In a functional activity assay, SID 7969543 was used to evaluate the response of HEK 293T cells co-transfected with a plasmid encoding full-length SF-1 and a vector expressing the fluorokinase gene under the control of five tandem natural SF-1 response elements (SFRE). SID 7969543 has an IC50 of 30 nM and significantly inhibits SF-1-induced fluorokinase expression. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL (88.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (3.32 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2101 mL	11.0507 mL	22.1014 mL
5 mM	0.442 mL	2.2101 mL	4.4203 mL
10 mM	0.221 mL	1.1051 mL	2.2101 mL
50 mM	0.0442 mL	0.221 mL	0.442 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

Madoux F, et al. Potent, selective and cell penetrant inhibitors of SF-1 by functional ultra-high-throughput screening. *Mol Pharmacol.* 2008 Jun;73(6):1776-84.

Roth J, et al. Synthesis of small molecule inhibitors of the orphan nuclear receptor steroidogenic factor-1 (NR5A1) based on isoquinolinone scaffolds. *Bioorg Med Chem Lett.* 2008 Apr 15;18(8):2628-32.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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