

NSC 12

Chemical Properties

CAS No. : 102586-30-1

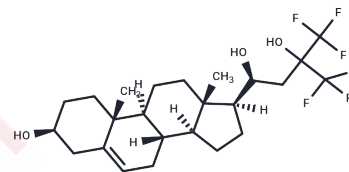
Formula: C₂₄H₃₄F₆O₃

Molecular Weight: 484.52

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	NSC 12 is an orally active pan-FGF trap that inhibits FGF-dependent tumor cell proliferation, angiogenesis, and metastasis. NSC 12 binds FGF2 and interferes with its interaction with FGFR1, but does not affect the ability of FGF2 to bind heparin or heparan sulfate proteoglycans (HSPGs), with potential antitumor activity. NSC 12 also organizes several other FGF isoforms to form the HSPG/FGF/FGFR ternary complex.
Targets(IC50)	FGFR

Solubility Information

Solubility	Ethanol:PBS (pH 7.2)(1:2): Insoluble, < 0.1 mg/mL (insoluble) DMSO: 8 mg/mL (16.51 mM), Sonication is recommended. Ethanol: 8 mg/mL (16.51 mM), Sonication is recommended. DMF: 8 mg/mL (16.51 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	2.0639 mL	10.3195 mL	20.639 mL
5 mM	0.4128 mL	2.0639 mL	4.1278 mL
10 mM	0.2064 mL	1.0319 mL	2.0639 mL
50 mM	0.0413 mL	0.2064 mL	0.4128 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

Ronca R, et al. Long-Pentraxin 3 Derivative as a Small-Molecule FGF Trap for Cancer Therapy. Cancer Cell. 2015 Aug 10;28(2):225-39.

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