

SGN-2FF

Chemical Properties

CAS No. : 2089647-47-0

Formula: C₆H₁₁FO₄

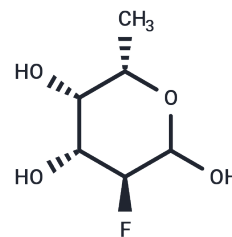
Molecular Weight: 166.15

Keep away from direct sunlight, 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	SGN-2FF is an oral fucosyltransferase inhibitor with antitumor activity.
Targets(IC50)	Others, Transferase
In vitro	SGN-2FF is a fucosylation inhibitor, SGN-2FF inhibits cellular fucosylation by depleting the fucosylation substrate GDP-fucose, and by direct inhibition of fucosyltransferases, and leads to the production of fucosylated glycoproteins including antibodies. SGN-2FF activates human T cells in an antigen-dependent manner.
In vivo	In multiple mouse tumor models, SGN-2FF exhibits antitumor activity. SGN-2FF shows substantial tumor growth delay. SGN-2FF elevates the protective effect of a lymphoma vaccine in a syngeneic mouse model.

Solubility Information

Solubility	H ₂ O: 35 mg/mL (210.65 mM), Sonication is recommended. DMSO: 50 mg/mL (300.93 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	6.0187 mL	30.0933 mL	60.1866 mL
5 mM	1.2037 mL	6.0187 mL	12.0373 mL
10 mM	0.6019 mL	3.0093 mL	6.0187 mL
50 mM	0.1204 mL	0.6019 mL	1.2037 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

- Stephen C. Alley, et al. Abstract DDT02-02: SGN-2FF: A novel small molecule inhibitor of fucosylation with preclinical antitumor activity through multiple immune mechanisms. *Cancer Res* 2017;77(13 Suppl).
- Pan Q, Xie Y, Zhang Y, et al. EGFR core fucosylation, induced by hepatitis C virus, promotes TRIM40-mediated-RIG-I ubiquitination and suppresses interferon-I antiviral defenses. *Nature Communications*.2024, 15(1): 652.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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