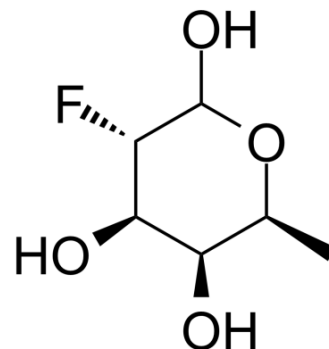


## SGN-2FF

Cat. No.:	HY-107366		
CAS No.:	2089647-47-0		
Molecular Formula:	C <sub>6</sub> H <sub>11</sub> FO <sub>4</sub>		
Molecular Weight:	166.15		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 36.67 mg/mL (220.70 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

SGN-2FF is a potent and orally active inhibitor of fucosylation, directly inhibits fucosyltransferase activity. SGN-2FF possesses antitumor activity<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Fucosyltransferase<sup>[1]</sup>

#### In Vitro

SGN-2FF (2-Fluorofucose) is an inhibitor of fucosylation, inhibits cellular fucosylation by depleting the fucosylation substrate GDP-fucose, and by direct inhibition of fucosyltransferases, and leads to the production of afucosylated glycoproteins including antibodies. SGN-2FF activates human T cells in an antigen-dependent manner<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

SGN-2FF exhibits antitumor activity in multiple mouse tumor models, showing substantial tumor growth delay. SGN-2FF elevates the protective effect of a lymphoma vaccine in a syngeneic mouse model<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. 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).

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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