



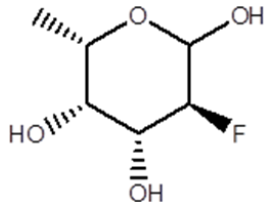
# SynChem, Inc

1400 Chase Ave., Elk Grove Village, IL 60007 USA Tel. 847-298-2436 Fax: 847-298-2439

## New Product Release

### 2-Fluoro-fucose

#### Material Information:

 <p>Chemical Structure:</p>	Catalog No	SC-36700	Quantity	Price
	Formula	C6H11FO4	10 mg	\$60.00
	FW	166.15	50 mg	\$210.00
	CAS	70763-62-1	100 mg	\$330.00
	Purity	98%	Custom Quantity	Quote
	MDL	MFCD08457748		

#### Cited references:

##### PubMed: 28912543

Zhou Y, Fukuda T, Hang Q, Hou S, Isaji T, Kameyama A, Gu J., Inhibition of fucosylation by 2-fluorofucose suppresses human liver cancer HepG2 cell proliferation and migration as well as tumor formation. Sci Rep. 2017 Sep 14;7(1):11563. <https://doi.org/10.1038/s41598-017-11911-9>

##### PubMed: 31908039

Duan C, Fukuda T, Isaji T, Qi F, Yang J, Wang Y, Takahashi S, Gu J. Deficiency of core fucosylation activates cellular signaling dependent on FLT3 expression in a Ba/F3 cell system. FASEB J. 2020 Feb;34(2):3239-3252. <https://doi.org/10.1096/fj.201902313RR>. Epub 2020 Jan 5.

Email your PO or inquiry to [sales@synchem.com](mailto:sales@synchem.com)



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## Overview:

Product Name: 2-Fluoro-fucose, fucosylation inhibitor

Synonyms: SGN-2FF, 2-Deoxy-2-fluoro-L-fucose, 2-FF, 2F-Fuc, 2-Fluoro fucose

Storage: Room temperature

Solubility: Water, DMSO, methanol, etc.

Source: Chemical synthesis

## Biological description:

2F-Fuc is a fluorinated analog of fucose that can be taken up and metabolized to the desired donor substrate-based inhibitor of fucosyltransferases inside the cell. It also acts to prevent the *de novo* synthesis of the natural substrates, resulting in a global, family-wide shutdown of fucosyltransferases and remodeling of cell surface glycans<sup>1</sup>. 2F-Fuc also inhibits fucosylation of plant cell wall polysaccharides<sup>2,3</sup>. In addition, 2F-Fuc demonstrated antitumor activity in mouse cancer models<sup>4</sup>.

Fucosylation inhibitor. Reduces fucosylation of IgG in antibodies, which increases therapeutic efficacies of antibodies that cause antibody-dependent cellular cytotoxicity.

- 1.DOI: 10.1038/nchembio.999
- 2.DOI: 10.1371/journal.pone.0139091
- 3.DOI: 10.1111/tpj.13071
- 4.DOI: 10.1158/1538-7445.AM2018-5551

## General notes:

This compound is a mixture of alpha and beta-fluoro-fucose and is the same as SGN-2FF in the report (Okeley, N., et al.: PCT Int. Appl., 66, 51 (2018) **DOI: 10.1158/1538-7445.AM2018-5551**

***Not hazardous material. For research use only, not for human, veterinary and household use***