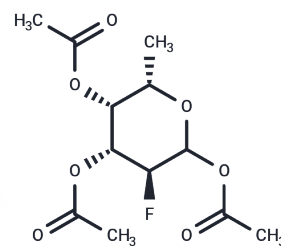


2F-Peracetyl-Fucose

Chemical Properties

CAS No. :	188783-78-0
Formula:	C ₁₂ H ₁₇ F ₀ O ₇
Molecular Weight:	292.26
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	2F-Peracetyl-Fucose (1,3,4-Tri-O-acetyl-2-deoxy-2-fluoro-L-fucopyranos) is a potent fucosyltransferase (FUT) inhibitor that suppresses salivary acidification and fucosylation in an in vitro inflammatory model.
Targets(IC50)	Others,Transferase

Solubility Information

Solubility	Chloroform: Soluble DMSO: 20 mg/mL (68.43 mM),Sonication is recommended. Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.84 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	3.4216 mL	17.1081 mL	34.2161 mL
5 mM	0.6843 mL	3.4216 mL	6.8432 mL
10 mM	0.3422 mL	1.7108 mL	3.4216 mL
50 mM	0.0684 mL	0.3422 mL	0.6843 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

Martina Zimmermann, et al. Impact of Acetylated and Non-Acetylated Fucose Analogues on IgG Glycosylation. *Antibodies (Basel)*. 2019 Jan 10;8(1):9.

Villalobos, J.A., Yi, B.R., and Wallace, I.S. 2-Fluoro-L-fucose is a metabolically incorporated inhibitor of plant cell wall polysaccharide fucosylation. *PLoS One* 10(9):e0139091(2015)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481