Product Data Sheet

2-Deoxy-2-fluoro-L-fucose

Cat. No.: HY-116705

CAS No.: 70763-62-1Molecular Formula: $C_6H_{11}FO_4$ Molecular Weight: 166.15Target: Others

Pathway: Others

Storage: -20°C, protect from light, stored under nitrogen

 * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under

nitrogen)

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (601.87 mM; Need ultrasonic)

	Solvent Mass Concentration	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.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (15.05 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.5 mg/mL (15.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (15.05 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	2-Deoxy-2-fluoro-L-fucose, an L-fucose analog, is a fucosylation inhibitor. 2-Deoxy-2-fluoro-L-fucose inhibits de novo synthesis of GDP-fucose in mammalian cells. Fucosylation is a relatively well-defined biomarker for progression in many human cancers; for example, pancreatic and hepatocellular carcinoma ^[1] .
In Vitro	2-Deoxy-2-fluoro-L-fucose (2FF) (100-500 μ M)) suppresses fucosylation in 4T1 cells ^[1] . 2-Deoxy-2-fluoro-L-fucose (100 μ M; 4T1 cells) decreases phosphorylation of Smad 1/5 and Smad 2 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

sylated Tetra-Antennary N-Gly .0):2528. Published 2019 May 2		/llactosamine Branch Is Associated with I	Poor Survival Outcome in Breast
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