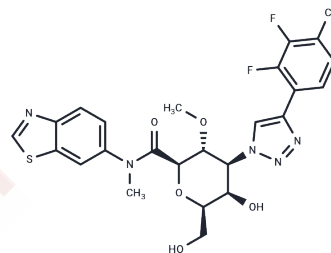


Galectin-3-IN-4

Chemical Properties

CAS No. :	2496515-38-7
Formula:	C ₂₄ H ₂₂ ClF ₂ N ₅ O ₅ S
Molecular Weight:	565.98
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	Galectin-3-IN-4 (compound 5), a carboxamide analog, effectively and selectively inhibits both human and mouse galectin-3. This compound demonstrates notable potency with IC ₅₀ values of 21 nM for hGal-3 and 167 nM for mGal-3. It is also orally bioavailable. For other galectins, Galectin-3-IN-4 shows IC ₅₀ values of 1580 nM for hGal-1 and 2750 nM for hGal-9, respectively [1].
Targets(IC ₅₀)	Galectin
In vivo	Galectin-3-IN-4 (compound 5) demonstrates low clearance (CL=12 mL/min/kg) and a high volume of distribution (V _{ss} =2.1 L/kg). When administered to mice, it shows an oral bioavailability of 52% [1] at doses of 2 mg/kg intravenously and 10 mg/kg orally, given once.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7668 mL	8.8342 mL	17.6685 mL
5 mM	0.3534 mL	1.7668 mL	3.5337 mL
10 mM	0.1767 mL	0.8834 mL	1.7668 mL
50 mM	0.0353 mL	0.1767 mL	0.3534 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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