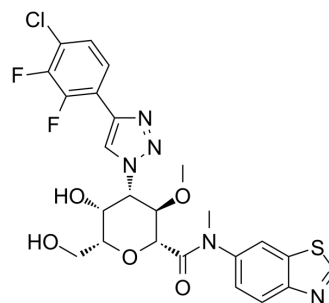


Galectin-3-IN-4

Cat. No.:	HY-163407
CAS No.:	2496515-38-7
Molecular Formula:	C ₂₄ H ₂₂ ClF ₂ N ₅ O ₅ S
Molecular Weight:	565.98
Target:	Galectin
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Galectin-3-IN-4 (compound 5) is a carboxamide analog. Galectin-3-IN-4 is a potent, selective, and orally bioavailable inhibitor of human and mouse galectin-3, with IC ₅₀ values of 21 and 167 nM for hGal-3 and mGal-3, respectively. Galectin-3-IN-4 has IC ₅₀ values of 1580 and 2750 nM for hGal-1 and hGal-9, respectively ^[1] .		
IC₅₀ & Target	Galectin-3 21 nM (IC ₅₀ , hGal-3)	Galectin-3 167 nM (IC ₅₀ , mGal-3)	Galectin-1 1580 nM (IC ₅₀ , hGal-1)
In Vivo	Galectin-3-IN-4 (compound 5) (2 mg/kg IV, 10 mg/kg PO; once) has a low clearance rate (CL = 12 mL/min/kg) and a high volume of distribution (V _{ss} = 2.1 L/kg), and has a 52 % oral bioavailabilities in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Liu C, et al. Identification of benzothiazole derived monosaccharides as potent, selective, and orally bioavailable inhibitors of human and mouse galectin-3; a rare example of using a S...O binding interaction for drug design. *Bioorg Med Chem*. 2024 Mar 1;101:117638.

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

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