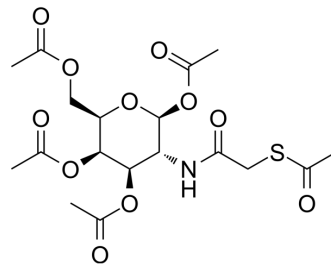


Ac5GalNTGc

Cat. No.:	HY-160109		
Molecular Formula:	C ₁₈ H ₂₅ NO ₁₁ S		
Molecular Weight:	463.46		
Target:	Mucin		
Pathway:	Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (215.77 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1577 mL	10.7884 mL	21.5768 mL
	5 mM	0.4315 mL	2.1577 mL	4.3154 mL
	10 mM	0.2158 mL	1.0788 mL	2.1577 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ac5GalNTGc is a analog of hexosamine. Ac5GalNTGc inhibits mucin-type O-linked glycosylation biosynthesis^[1].

REFERENCES

- [1]. Shuen-Shiuan Wang, et al. Efficient inhibition of O-glycan biosynthesis using the hexosamine analog Ac5GalNTGc. Cell Chem Biol. 2021, 28, 5.
- [2]. Agarwal K, Kaul R, Garg M, Shajahan A, Jha SK, Sampathkumar SG. Inhibition of mucin-type O-glycosylation through metabolic processing and incorporation of N-

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

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