

N-Acetylgalactosaminyltransferase 1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	N-Acetylgalactosaminyltransferase 1 (GALNT1) is a glycosyltransferase that initiates mucin-type O-glycosylation by transferring α -GalNAc from UDP-GalNAc to serine (Ser) or threonine (Thr) residues in proteins. Overexpression of N-Acetylgalactosaminyltransferase 1 in gastric cancer enhances the aberrant O-glycosylation of CD44, activating the Wnt/ β -catenin signaling pathway and influencing the malignant behavior of gastric cancer cells. This enzyme plays a crucial role in cancer progression and metastasis by modifying the O-glycosylation of various glycoproteins such as mucin (MUC1), osteopontin (OPN), matrix metalloproteinase-14 (MMP14), and integrin α 3.
Targets(IC50)	Endogenous Metabolite,Wnt/beta-catenin

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