

N-Acetylgalactosaminyltransferase 1

Cat. No.:	HY-E70290	
Target:	Endogenous Metabolite; β -catenin; Wnt	
Pathway:	Metabolic Enzyme/Protease; Stem Cell/Wnt	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	N-Acetylgalactosaminyltransferase 1

BIOLOGICAL ACTIVITY

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 promotes the Wnt/ β -catenin signaling pathway through abnormal O-glycosylation of CD44, thereby enhancing malignancy. N-Acetylgalactosaminyltransferase 1 plays a crucial role in cancer growth and metastasis by modifying O-glycosylation of various glycoproteins, such as mucin (MUC1), osteopontin (OPN), matrix metalloproteinase-14 (MMP14), and integrin α 3^[1].

REFERENCES

[1]. Zhang J, et al. GALNT1 Enhances Malignant Phenotype of Gastric Cancer via Modulating CD44 Glycosylation to Activate the Wnt/ β -catenin Signaling Pathway. *Int J Biol Sci.* 2022 Oct 17;18(16):6068-6083.

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

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