



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## N-Acetylgalactosaminyltransferase 1

Cat. No.:	HY-E70290	
Target:	Endogenous Metabolite; $\beta$ -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  $\alpha$ -GalNAc from UDP-GalNAc to serine (Ser) or threonine (Thr) residues in proteins. Overexpression of N-Acetylgalactosaminyltransferase 1 in gastric cancer promotes the Wnt/ $\beta$ -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  $\alpha$ 3<sup>[1]</sup>.

### REFERENCES

[1]. Zhang J, et al. GALNT1 Enhances Malignant Phenotype of Gastric Cancer via Modulating CD44 Glycosylation to Activate the Wnt/ $\beta$ -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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