
Product Data Sheet

Product Name: GALNT1 Mouse

Cat. No.: GP21642

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Polypeptide N-acetylgalactosaminyltransferase 1; Polypeptide GalNAc transferase 1; GalNAc-T1; pp-GaNTase 1; Protein-UDP acetylgalactosaminyltransferase 1; polypeptide N-acetylgalactosaminyltransferase 1.		
Amino Acid Sequence	ADPGLPAGDV LELVQKPHEG PGEMGKPVVI PKEDQEKMKE MFKINQFNLM ASEMIALNRS LPDVRLEGCK TKVYPDNLPT TSVVIVFHNE AWSTLLRTVH SVINRSRPHM IEEIVLVDDA SERDFLKRPL ESYVKKLKVP VHVIRMEQRS GLIRARLKGA AVSRGQVITF LDAHCECTAG WLEPLLARIK HDRRTVVCPI IDVISDDTFE YMAGSDMTYG GFNWKLNFRW YPVPQREMDR RKGDRTLTPVR TPTMAGGLFS IDRDFYQEIG TYDAGMDIWG GENLEISFRI WQCGGTLEIV TCSHVGHVFR KATPYTFPGG TGQIINKNNR RLAEVWMDEF KNFFYIISPG VTKVDYGDIS SRLGLRRKLQ CKPFSWYLEN IYPDSQIPRH YFSLGEIRNV ETNQCLDNMA RKENEKVGIF NCHGMGGNQV FSYTANKEIR TDDLCLDVSK LNGPVTMLKC HHLKGNQLWE YDPVKLTLQH VNSNQCLDKA TEEDSQVPSI RDCTGSRSQQ WLLRNVTLP E IFHHHHHH .		
Formulation	GALNT1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Polypeptide N-Acetylgalactosaminyltransferase 1 (Galnt1) , is part of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. The initial reaction in O-linked oligosaccharide biosynthesis is catalyzed by Galnt1, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Moreover, Galnt1 is implicated in the glycosylation of proteins vital for bone formation for instance osteopontin and bone sialoprotein.

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

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GALNT1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 528 amino acids (41-559 a.a.) and having a molecular mass of 60.5kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). GALNT1 is expressed with an 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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