

Active Recombinant Human GALNT1 Protein, His-tagged

Cat. No. GALNT1-676H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GALNT1 Protein is produced by Baculovirus expression system. This protein is fused with a His tag.
Species	Human
Source	Insect Cells
ProteinLength	41-559 aa
Description	GALNT1, also known as polypeptide N-acetylgalactosaminyltransferase 1, is a member of the GalNAc-T family of enzymes. It utilizes UDP-GalNAc as the nucleotide donor substrate to modify serine or threonine residues of proteins trafficking through the secretory pathway. Structurally, GalNAc-Ts consist of an N-terminal catalytic domain tethered by a short linker to a C-terminal ricin-like lectin domain containing three potential carbohydrate-binding sites. Also, this protein is involved in the glycosylation of proteins essential for bone formation such as osteopontin and bone sialoprotein. Recombinant human GALNT1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.1 M NaCl, 10 % glycerol.
Bio-activity	Specific activity is > 300 pmol/min/ug, and is defined as the amount of enzyme that transfer 1.0 pmole of GalNAc from UDP-GalNAc to peptide EA2 per minute per minute at pH 8.0 at 37 centigrade.

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Molecular Mass	60.4 kDa
AA Sequence	ADPGLPAGDV LEPVQKPHEG PGEMGKPVVI PKEDQEKMK E MFKINQFNLM ASEMIALNRS LPDVRLEGCK TKVYPDNLPT TSVVIVFHNE AWSTLLRTVH SVINRSPRHM IEEIVLVDDA SERDFLKRPL ESYVKKLKVP VHVIRMEQRS GLIRARLKGA AVSKGQVITF LDAHCECTVG WLEPLLARIK HDRRTVVCPI IDVISDDTFE YMAGSDMTYG GFNWKLNFRW YPVPQREMDR RKGDRTPVPR TPTMAGGLFS IDRDFYQFEG TYDAGMDIWG GENLEISFRI WQCGGTLEIV TCSHVGHVFR KATPYTFPGG TGQIINKNNR RLAEVWMDEF KNFFYIISPG VTKVDYGDIS SRVGLRHLKQ CKPFSWYLEN IYPDSQIPRH YFSLGEIRNV ETNQCLDNMA RKENEKVGIF NCHGMGGNQV FSYTANKEIR TDDLCLDVSK LNGPVTMLKC HHLKGNQLWE YDPVKLTQLH VNSNQCLDKA TEEDSQVPSI RDCNGSRSQQ WLLRNVTLPE IFHHHHHH
Endotoxin	< 1.0 EU per 1 ug of protein (determined by LAL method)
Purity	> 90 % by SDS - PAGE
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Absorbance at 280 nm).
GENE INFORMATION	
Gene Name	GALNT1 UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglactosaminyltransferase 1 (GalNAc-T1) [Homo sapiens]

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Official Symbol	GALNT1
Synonyms	Polypeptide N-acetylgalactosaminyltransferase 1; GALNT1; GALNAC-T1;
Gene ID	2589
mRNA Refseq	NM_020474
Protein Refseq	NP_065207
MIM	602273
UniProt ID	Q10472

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