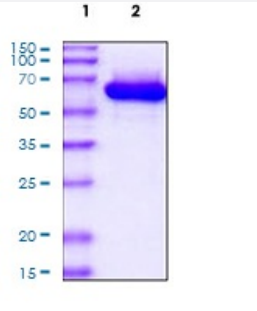
Bioactive

GALNT1 (Human) Recombinant Protein

Catalog # P8057 Size 100 ug

Applications



Specification

Product Description	Human GALNT1 (Q10472, 41 a.a. - 559 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.
Sequence	GLPAGDVLEPVQKPHEGPGEMGKPVVIPKEDQEKMKEMFKINQFNLMASEMIALNRSLPDVRLE GCKTKVYPDNLPTTSVVIVFHNEAWSTLLRTVHSVINRSPRHMIEEIVLVDDASERDFLKRPLESYV KKLKVPVHVIRMEQRSGLIRARLKGAAVSKGQVITFLDAHCECTVGWLEPLLARIKHDRRTVVCPII DVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQREMDRRKGDRTLPVRTPTMAGGLFSIDRDY FQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKATPYTFPGGTGQIINKNNRRL AEVWMDEFKNFFYIISPGVTKVDYGDISSRVGLRHKLQCKPFSWYLENIYPDSQIPRHYFSLGEIRN VETNQCLDNMARKENEKVGIFNCHGMGGNQVFSYTANKEIRTDDLCLDVSKLNGPVTMLKCHHL KGNQLWEYDPVKLTLQHVNSNQCLDKATEEDSQVPSIRDCNGSRSQQWLLRNVTLPEIF
Host	Viruses
Theoretical MW (kDa)	60.4
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)

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Activity	Specific activity is > 300 pmol/min/ug, and is defined as the amount of enzyme that transfer 1.0 pmol e of GalNAc from UDP-GalNAc to peptide EA2 per minute per minute at pH 8.0 at 37°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (10% glycerol, 0.1 M NaCl)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GALNT1

Entrez GeneID	2589
Protein Accession#	Q10472
Gene Name	GALNT1
Gene Alias	GALNAC-T1
Gene Description	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (GalNAc-T1)
Omim ID	602273
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes. GalNAc-Ts initiate mucin-type O-linked glycosylation in the Golgi apparatus by catalyzing the transfer of GalNAc to serine and threonine residues on target proteins. They are characterized by an N-terminal transmembrane domain, a stem region, a lumenal catalytic domain containing a GT1 motif and Gal/GalNAc transferase motif, and a C-terminal ricin/lectin-like domain. GalNAc-Ts have different, but overlapping, substrate specificities and patterns of expression. Transcript variants derived from this gene that utilize alternative polyA signals have been described in the literature. [provided by RefSeq
Other Designations	GalNAc transferase 1|UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 1|polypeptide N-acetylgalactosaminyltransferase 1|protein-UDP acetylgalactosaminyltransferase 1

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Pathway

- Metabolic pathways
- O-Glycan biosynthesis

Disease

- Amyotrophic lateral sclerosis
- Genetic Predisposition to Disease
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms

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