

Product datasheet

Recombinant Mouse GALNT1 protein (His tag)
 ab227406

1 Image

Description

Product name	Recombinant Mouse GALNT1 protein (His tag)	
Purity	> 90 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	Baculovirus infected insect cells	
Accession	O08912	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Mouse	
Sequence	ADPGLPAGDVLELVQKPHEGPGEMGKPVVIPKEDQE KMKEMFKINQFNLM ASEMIALNRSLPDVRLEGCKTKVYPDNLPTTSVVMFH NEAWSTLLRTVH SVINRSPRHMIEEMLVDDASERDFLKRPLESYVKKLKV PVHVIRMEQRS GLIRARLKGAAVSRGQVITFLDAHCECTAGWLEPLLARI KHDRRTVVCPI IDVISDDTFEYMAGSDMTYGGFNWKLNFRWYPVPQRE MDRRKGDRTL PVR TPTMAGGLFSIDRDYFQEIGTYDAGMDIWGGENLEISFR WQCGGTLEIV TCSHVGHVFRKATPYTFPGGTGQIINKNRRRLAEVWM DEFKNFFYISPG VTKVDYGDISSRLGLRRKLQCKPFSWYLENYPDSQIPR HYFSLGEIRNV ETNQCLDNMARKENEKVGFNCHGMGGNQVFSYTAN KEIRTDLCLDVSK LNGPVTMLKCHHLKGNQLWEYDPVKLTLQHVNSNQC LDKATEEDSQVPSI RDCTGSRSSQQWLLRNVTLP EIFHHHHHHH	
Predicted molecular weight	61 kDa including tags	

Amino acids	41 to 559
Tags	His tag C-Terminus
Additional sequence information	NP_038842. Product corresponds to the soluble form of GALNT1.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab227406** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

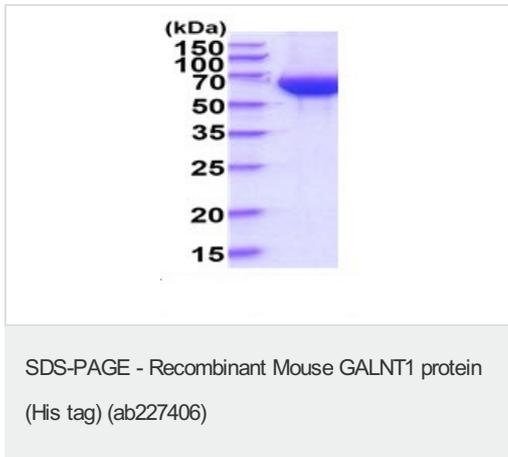
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.4 Constituents: PBS, 10% Glycerol
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General Info

Function	Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Has a broad spectrum of substrates for peptides such as EA2, Muc5AC, Muc1a, Muc1b and Muc7.
Tissue specificity	Widely expressed. Expressed in all tissues tested.
Pathway	Protein modification; protein glycosylation.
Sequence similarities	Belongs to the glycosyltransferase 2 family. GalNAc-T subfamily. Contains 1 ricin B-type lectin domain.
Domain	There are two conserved domains in the glycosyltransferase region: the N-terminal domain (domain A, also called GT1 motif), which is probably involved in manganese coordination and substrate binding and the C-terminal domain (domain B, also called Gal/GalNAc-T motif), which is probably involved in catalytic reaction and UDP-Gal binding. The ricin B-type lectin domain directs the glycopeptide specificity. It is required in the glycopeptide specificity of enzyme activity but not for activity with naked peptide substrates, suggesting that it triggers the catalytic domain to act on GalNAc-glycopeptide substrates.
Cellular localization	Secreted and Golgi apparatus > Golgi stack membrane.

Images



ab227406 (3 µg) analysed by 15% SDS-PAGE.

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