

Product datasheet

Recombinant Human GALNT7 protein ab185842

Description

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| Product name | Recombinant Human GALNT7 protein | |
| Purity | > 95 % SDS-PAGE. Purity is determined by SEC-HPLC and reducing SDS-PAGE. | |
| Endotoxin level | < 1.000 Eu/μg | |
| Expression system | Mammalian | |
| Accession | Q86SF2 | |
| Protein length | Protein fragment | |
| Animal free | No | |
| Nature | Recombinant | |
| Species | Human | |
| Sequence | <p>PRPDDPSPLSRMREDRDVNDPMPNRGGNGLAPGEDRF KPVVWPHVEGVE VDLESIRRINKAKNEQEHHAGGDSQKDIMQRQYLTFKPQT FTYHDPVLRP GILGNFEPKEPEPPGVVGGPGEKAKPLVLGPEFKQAIQAS KEFGFNMVA SDMISLDRSVNDLRQEECKYWHYDENLLTSSVVMFHNEG WSTLMRTVHS VIKRTPRKYLAENVLIDDFSNKEHLKEKLDEYIKLWNGLVKV FRNERREG LIQARSIGAQKAKLGQVLIYLDACEVAVNWWYAPLVAPISK DRTICTVPL IDVINGNTYEIIPQGGGDEDGYARGAWDWSMLWKRVP LTP QEKRLRKT KT EPYRSPAMAGGLFAIEREFFFELGLYDPGLQIWGGENFEIS YKWQCGGK LLFVPCSRVGHYRLEGWQGNPPPIYVGS SPTLKNYVRVV EVWWDEYKDY FYASRPESQALPYGDISELKKFREDHNCKSFKWFMEIAY DITSHYPLPP KNVDWGEIRGFETAYCIDSMGKTNGGFVELG PCHRMGGN QLFRINEANQL MQYDQCLTKGADGSKVMITHCNLNEFKEWQYFKNLHRFT HIPSGKCLDRS EVLHQVFISNCDSSKTTQKWEMNNIHSVVDHHHHHHH</p> | |

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| Predicted molecular weight | 73 kDa including tags |
| Amino acids | 30 to 657 |
| Tags | His tag C-Terminus |
| Additional sequence information | Luminal domain |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab185842** in the following tested applications.

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

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| Applications | SDS-PAGE HPLC |
| Form | Liquid |

Preparation and Storage

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| Stability and Storage | Shipped on Dry Ice. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione Supplied as a 0.2 µM filtered solution |
|------------------------------|---|

General Info

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|------------------------------|---|
| Function | Glycopeptide transferase involved in O-linked oligosaccharide biosynthesis, which catalyzes the transfer of an N-acetyl-D-galactosamine residue to an already glycosylated peptide. In contrast to other proteins of the family, it does not act as a peptide transferase that transfers GalNAc onto serine or threonine residue on the protein receptor, but instead requires the prior addition of a GalNAc on a peptide before adding additional GalNAc moieties. Some peptide transferase activity is however not excluded, considering that its appropriate peptide substrate may remain unidentified. |
| Tissue specificity | Widely expressed. Expressed in uterus, retina, kidney, small intestine, omentum, stomach and CNS. |
| 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 binds to GalNAc and contributes to the glycopeptide specificity. |
| Cellular localization | Golgi apparatus membrane. |

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