

Recombinant Human B4GALT4, His-tagged

Cat. No. B4GALT4-27423TH Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant fragment, corresponding to amino acids 25-344 of Human B4GALT4 with a N terminal His tag; predicted MWt 38 kDa: |
| Species | Human |
| Source | E.coli |
| ProteinLength | 25-344 a.a. |
| Description | <p>This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus and which then remains uncleaved to function as a transmembrane anchor. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. The enzyme encoded by this gene appears to mainly play a role in glycolipid biosynthesis. Two alternatively spliced transcript variants have been found for this gene.</p> |
| Conjugation | HIS |
| Form | Lyophilised:reconstitution with 73 |

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| | µl aqua dest. |
| Storage buffer | Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5 |
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |
| Sequences of amino acids | VVGWATSNYFVGAIQEIPKAKEFMANFHKTLILGKGKTLT NEASTKKVELDNCPSVS PYLRGQSKLIFKPDLTLEEVQ AENPKVSRGRYRPQECKALQRVAILVPHRNREKHL MYL LEHLHPFLQRQQLDYGIYVIHQAEQKKNRAKLLNVGYLE ALKEENWDCFIFH DVDLVPENDFNLYKCEEHPKHLVVG RNSTGYRLRYSGYFGGVTALSREQFFKVNQ FSNNYWGQ GGEDDDLRLRVELQRMKISRPLPEVGKYTMVFHTRDKGNEVNAERM KLLHQVSRVWRTDGLSSCSYKLVSVVEHNPLYI NITVDFWFGA |

GENE INFORMATION

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| Gene Name | B4GALT4 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4 [Homo sapiens] |
| Official Symbol | B4GALT4 |
| Synonyms | B4GALT4; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4; beta-1,4-galactosyltransferase 4; beta4Gal T4; |
| Gene ID | 8702 |
| mRNA Refseq | NM_003778 |
| Protein Refseq | NP_003769 |
| MIM | 604015 |

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| Uniprot ID | O60513 |
| Chromosome Location | 3q13.3 |
| Pathway | Asparagine N-linked glycosylation, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, conserved biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; |
| Function | N-acetyllactosamine synthase activity; galactosyltransferase activity; metal ion binding; transferase activity, transferring glycosyl groups; |

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