

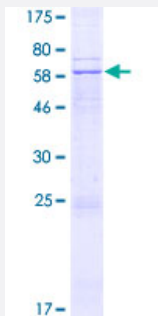
Full-Length

## B4GALT4 (Human) Recombinant Protein (P01)

Catalog # H00008702-P01

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human B4GALT4 full-length ORF ( AAH04523.1, 1 a.a. - 344 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MGFNLT FHLSYKFRLLLLLTLCLTVVGWATSNYFVGAIQEIPKAKEFMANFHKTLILGKGKTLTNEAS  
TKKVELDNCPSVSPYLRGQSKLIFKPDLTLEEVAENPKVSRGRYPREECKALQRVAILVPHRNR  
EKHLMYLLLEHLHPFLQRQQLDYGIYVHQAEKKFNRAKLLNVGYLEALKEENWDCFIHVDVLP  
ENDFNLKCEEHPKHLVVGRNSTGYRLRYSGYFGGVTALSREQFFKVNGFSNNYWGWWGGEDDD  
LRLRVELQRMKISRPLPEVGKYTMVFHTRDKGNEVNAERMKLLHQVSRVWRTDGLSSCSYKLVS  
VEHNPLYINITVDFWFGA

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

66.4

#### Interspecies Antigen Sequence

Mouse (84); Rat (85)

#### Preparation Method

[in vitro wheat germ expression system](#)

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

#### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — B4GALT4

**Entrez GeneID**[8702](#)**GeneBank Accession#**[BC004523.2](#)**Protein Accession#**[AAH04523.1](#)**Gene Name**

B4GALT4

**Gene Alias**

B4Gal-T4, beta4Gal-T4

**Gene Description**

UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4

**Omim ID**[604015](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase 4|beta-N-acetylglucosaminyl-glycolipid beta  
-1,4-galactosyltransferase 4

---

**Pathway**

- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Keratan sulfate biosynthesis](#)
- [Metabolic pathways](#)