

B4GALT1 recombinant protein

B4GALT1 Protein, Mouse, Recombinant (His Tag), HPLC-verified

CATALOG #
AAA259260

HOST
HEK293 Cells

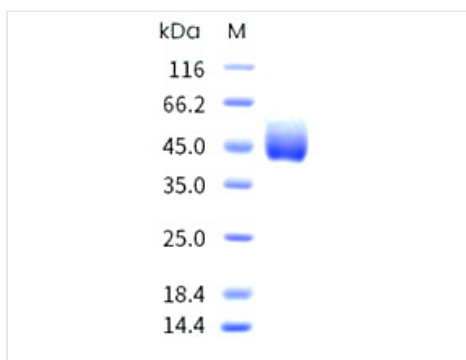
PRODUCT SYNONYMS

B4GALT1; B4GALT1 Protein; Mouse; Recombinant (His Tag); HPLC-verified; UDP-Gal:betaGlcNAc beta 1; 4- galactosyltransferase; polypeptide 1; B-1; 4-GalT Protein; 4-GalT1 Protein; b4Gal-T1 Protein; beta-1; beta4Gal-T1 Protein; GalT Protein; Ggtb Protein; Ggtb2 Protein; B4GALT1 recombinant protein

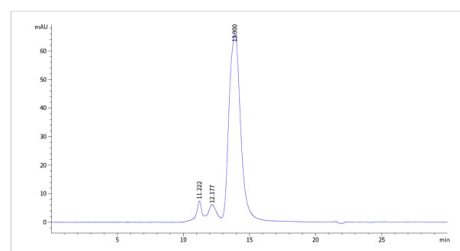
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Species	Mouse
Predicted N Terminal	His
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Mouse B4GALT1 (P15535)(Gly44-Arg399) was expressed, with a polyhistidine tag at the N-terminus.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



Application Data

Application Data

ADDITIONAL INFORMATION

Related Product Information for B4GALT1 recombinant protein	Beta1,4-Galactosyltransferase-I (B4GALT1), one of seven beta1,4-galactosyltransferases, is an enzyme commonly found in the trans-Golgi complex that adds galactose to oligosaccharides. 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. B4GALT1 gene directs production of B4GALT1 protein using either of two transcription start sites. The product of the smaller transcript serves the traditional biosynthetic role in the Golgi. This form also complexes with alpha-lactalbumin, a mammary-specific protein, to form lactose synthase. In addition to a biosynthetic role, the protein translated from the longer transcript appears on the plasma membranes of some cells where it serves as a signalling receptor in cell-matrix interactions such as sperm-egg binding.
References	Hennet T. (2002) The galactosyltransferase family. Cellular and Molecular Life Sciences. 59(7): 1081-95. Landers EA, et al. (2009) Porcine 1, 4-Galactosyltransferase-I Sequence and Expression. Reproduction in Domestic Animals. 44(2): 228-34. Amado M, et al. (2000) Identification and characterization of large galactosyltransferase gene families: galactosyltransferases for all functions. Biochim Biophys Acta. 1473 (1): 35-53.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11602910
NCBI GeneID	14595
NCBI Accession #	NP_071641.1
NCBI GenBank Nucleotide #	NM_022305.4
UniProt Accession #	P15535
Molecular Weight	44,411 Da
NCBI Official Full Name	beta-1,4-galactosyltransferase 1
NCBI Official Synonym Full Names	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
NCBI Official Symbol	B4galt1
NCBI Official Synonym Symbols	GalT; Ggtb; Ggtb2; b4Gal-T1; B-1,4-GalT; B-1,4-GalT1; beta4Gal-T1; beta-1,4-GalT; beta-1,4-GalT1
NCBI Protein Information	beta-1,4-galactosyltransferase 1; beta-1,4-GalTase 1; b1,4-Galactosyltransferase I; galactosyltransferase 2 beta 1, 4; glycoprotein galactosyltransferase beta 1, 4; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 1
UniProt Protein Name	Beta-1,4-galactosyltransferase 1
UniProt Gene Name	B4galt1
UniProt Synonym Gene Names	Ggtb; Ggtb2; Beta-1,4-GalTase 1; Beta4Gal-T1; b4Gal-T1
UniProt Entry Name	B4GT1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.