

Recombinant Human B4GALT7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. B4GALT7-5141H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	B4GALT7 MS Standard C13 and N15-labeled recombinant protein (NP_009186) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the beta-1,4-galactosyltransferase (beta4GalT) family. Family members encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose. Each beta4GalT member 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 which then remains uncleaved to function as a transmembrane anchor. The enzyme encoded by this gene attaches the first galactose in the common carbohydrate-protein linkage (GlcA-beta1,3-Gal-beta1,3-Gal-beta1,4-Xyl-beta1-O-Ser) found in proteoglycans. This enzyme differs from other beta4GalTs because it lacks the conserved Cys residues found in beta4GalT1-beta4GalT6 and it is located in cis-Golgi instead of trans-Golgi. Mutations in this gene have been associated with the progeroid form of Ehlers-Danlos syndrome.
Molecular Mass	37.4 kDa
AA Sequence	MFPSRRKAAQLPWEDGRSGLLSGGLPRKCSVFHLFVACLSLGGFFSLLWLQLSCSGD

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VARAVRGQGQETSGPPRACPPEPPPEHWEEDASWGPHRLAVLVPPFRERFEELLVF
 VPHMRRFLSRKKIRHHIYVLNQVDHFRFNRAALINVGFLSSNSTDYIAMHDVDLLPL
 NEELDYGFPPEAGPFHVASPELHPLYHYKTYVGGILLLSKQHYRLCNGMSNRFWGW
 GREDDEFYRRIKGAGLQLFRPSGITTGYKTFRHLHDPAWRKRDQKRIAAQKQEQFK
 VDREGGLNTVKYHVASRTALSVGGAPCTVLNIMLDCDKTATPWCTFSTRTRPLEQK
 LISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name B4GALT7 beta-1,4-galactosyltransferase 7 [Homo sapiens (human)]

Official Symbol B4GALT7

Synonyms B4GALT7; xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I); beta-1,4-galactosyltransferase 7; beta4Gal T7; XGALT 1; beta4Gal-T7; beta4GalT-VII; beta-1,4-GalTase 7; beta-1,4-galactosyltransferase VII; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 7; proteoglycan UDP-galactose:beta-xylose beta1,4-galactosyltransferase I; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 7; XGPT1; XGALT1;

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Gene ID	11285
mRNA Refseq	NM_007255
Protein Refseq	NP_009186
MIM	604327
UniProt ID	Q9UBV7
SDS-PAGE	