

Product datasheet for **TP300258**

B4GALT7 (NM_007255) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I) (B4GALT7), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200258 protein sequence Red =Cloning site Green =Tags(s) MFPSRRKAAQLPWEDGRSGLLSGGLPRKCSVFHLFVACL ^{SL} GFFSLLWLQLSCSGDVARAVRGQGQETSG PPRACPPPEPPPEHWEDASWGWPHRLAVLV ^{PF} FRERFEELLV ^{FV} PHMRRFLSRKKIRHHIYVLN ^{QV} DHFRFN RAALIN ^{VG} FLESSNSTDYIAMHDVDLL ^{PL} NEELDYGFPEAGPFHVASPELHPLYHYKTYVGGILL ^{LS} SKQH YRLCNGMSNRFWGWGREDEFYRRIGAGL ^{QL} FRPSGIT ^{TG} YKTRH ^{LH} DPAWRKRDQKRIAAQKQE ^{QF} K VDREGGLNTV ^{KY} HVASRTALSVGGAPCTVLNIMLDCDKTATPWCTFS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	37.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_009186</u>



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Locus ID: 11285

UniProt ID: [Q9UBV7](#)

RefSeq Size: 1747

Cytogenetics: 5q35.3

RefSeq ORF: 981

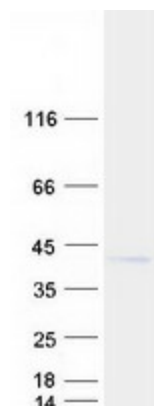
Synonyms: EDSP1; EDSSLA; EDSSPD1; XGALT1; XGPT; XGPT1

Summary: 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. [provided by RefSeq, Oct 2009]

Protein Families: Transmembrane

Protein Pathways: Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways

Product images:



Coomassie blue staining of purified B4GALT7 protein (Cat# TP300258). The protein was produced from HEK293T cells transfected with B4GALT7 cDNA clone (Cat# [RC200258]) using MegaTran 2.0 (Cat# [TT210002]).