

Product datasheet for PH309493

B4GALT4 (NM_003778) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	B4GALT4 MS Standard C13 and N15-labeled recombinant protein (NP_003769)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209493
Predicted MW:	40 kDa
Protein Sequence:	>RC209493 protein sequence Red =Cloning site Green =Tags(s)

MGFNLTFLSYKFRLLLLLTLCLTVVGWATSNYFVGAIQEIPKAKEFMANFHKTLLGKGKTLTNEASTK
 KVELDNCPSVSPYLRGQSKLIFKPDLTLEEVQAENPKVSRGRYPPEECKALQRVAILVPHRNREKHLMYL
 LEHLHPFLQRQQLDYGIIYIHQAEGKKFNAKLLNVGYLEALKEENWDCFIFHDVDLVPENDFNLYKCEE
 HPKHLVVGGRNSTGYRLRYSYFGGVTALSRQFFKVNFGSNNYWGWGEDDDLRLRVELQRMKISRPLPE
 VGKYTMVFHTRDKGNEVNAERMKLLHQVSRVWRTDGLSSCSYKLVSEHNPLYINITVDFWFGA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003769</u>
RefSeq Size:	2283
RefSeq ORF:	1032
Synonyms:	B4Gal-T4; beta4Gal-T4
Locus ID:	8702


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UniProt ID: [O60513](#), [B2RAZ5](#), [B3KM35](#)

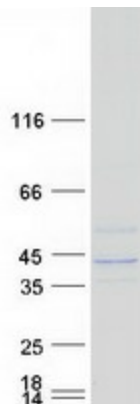
Cytogenetics: 3q13.32

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, Jul 2008]

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan sulfate biosynthesis, Metabolic pathways

Product images:



Coomassie blue staining of purified B4GALT4 protein (Cat# [TP309493]). The protein was produced from HEK293T cells transfected with B4GALT4 cDNA clone (Cat# [RC209493]) using MegaTran 2.0 (Cat# [TT210002]).