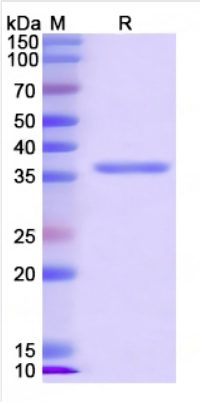
CD77/A4GALT Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD77/A4GALT, Recombinant Protein
Full Product Name	Recombinant Human CD77/A4GALT, N-His
Product Gene Name	CD77/A4GALT recombinant protein
Product Synonym Names	Gb3 synthase; UDP-galactose:beta-D-galactosyl-beta1-R 4-alpha-D-galactosyltransferase; CD77 synthase; Alpha-1; 4-N-acetylglucosaminyltransferase; Lactosylceramide 4-alpha-galactosyltransferase; Alpha4Gal-T1; Alpha-1; 4-galactosyltransferase; A4GALT1; A4GALT; Globotriaosylceramide synthase; P1/Pk synthase; A14GALT
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	40,499 Da
Sequence Positions	Gly44-Leu353
OMIM	607922
3D Structure	ModBase 3D Structure for Q9NPC4
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CD77/A4GALT recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD77/A4GALT recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for CD77/A4GALT recombinant protein	MBS1575997 is a recombinant protein targeting CD77/A4GALT. Also known as Recombinant Human CD77/A4GALT, N-His. Host: E coli.
Other Notes	Small volumes of CD77/A4GALT recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of CD77/A4GALT recombinant protein
SDS PAGE for recombinant Human CD77/A4GALT protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD77/A4GALT. It may not necessarily be applicable to this product.

NCBI GI #	8392830
NCBI GeneID	53947
NCBI Accession #	NP_059132.1
UniProt Primary Accession #	Q9NPC4
UniProt Secondary Accession #	Q9P1X5; B2R7C4
UniProt Related Accession #	Q9NPC4
GenBank Nucleotide #	NM_017436.4
NCBI Official Full Name	lactosylceramide 4-alpha-galactosyltransferase
NCBI Official Synonym Full Names	alpha 1,4-galactosyltransferase
NCBI Official Symbol	A4GALT
NCBI Official Synonym Symbols	P1; PK; Gb3S; P(k); P1PK; A14GALT; A4GALT1
UniProt Protein Name	Lactosylceramide 4-alpha-galactosyltransferase
UniProt Synonym Protein Names	Alpha-1,4-N-acetylglucosaminyltransferase; Alpha-1,4-galactosyltransferase; Alpha4Gal-T1; CD77 synthase; Globotriaosylceramide synthase; Gb3 synthase; P1/Pk synthase; UDP-galactose:beta-D-galactosyl-beta1-R 4-alpha-D-galactosyltransferase
UniProt Gene Name	A4GALT
UniProt Synonym Gene Names	A14GALT; A4GALT1; Gb3 synthase
UniProt Entry Name	A4GAT_HUMAN
NCBI Protein Information	lactosylceramide 4-alpha-galactosyltransferase; GB3 synthase; alpha4Gal-T1; CD77 synthase; P1/Pk synthase; P(k) antigen synthase; P blood group (P one antigen); globotriaosylceramide synthase; alpha-1,4-N-acetylglucosaminyltransferase; UDP-galactose:beta-
NCBI Summary for CD77/A4GALT	The protein encoded by this gene catalyzes the transfer of galactose to lactosylceramide to form globotriaosylceramide, which has been identified as the P(k) antigen of the P blood group system. The encoded protein, which is a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor. [provided by RefSeq, Jul 2008]

UniProt Comments for CD77/A4GALT	A4GALT: Necessary for the biosynthesis of the Pk antigen of blood histogroup P. Catalyzes the transfer of galactose to lactosylceramide and galactosylceramide. Necessary for the synthesis of the receptor for bacterial verotoxins. Belongs to the glycosyltransferase 32 family. Protein type: EC 2.4.1.228; Glycan Metabolism - glycosphingolipid biosynthesis - globo series; Transferase; Membrane protein, integral Chromosomal Location of Human Ortholog: 22q13.2 Cellular Component: membrane; integral to Golgi membrane Molecular Function: toxin binding; galactosyltransferase activity; lactosylceramide 4-alpha-galactosyltransferase activity Biological Process: globoside biosynthetic process; glycosphingolipid biosynthetic process; plasma membrane organization and biogenesis; protein amino acid glycosylation Disease: Blood Group, P1pk System
Research Articles on CD77/A4GALT	**1.** P1-decorated PSGL-1/mIgG2b bound with high avidity to both Stx1 and Stx2, and as such constitutes a potential therapeutic inhibitor of these toxins.
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