

Recombinant Human A4GALT, GST-tagged

Cat. No. A4GALT-9186H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human A4GALT protein, fused to GST-tag, was expressed in E.coli and purified by GST-sepharose.
Species	Human
Source	E.coli
ProteinLength	41-353a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	A4GALT alpha 1,4-galactosyltransferase [Homo sapiens]
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Official Symbol	A4GALT
Synonyms	A4GALT; alpha 1,4-galactosyltransferase; alpha 1,4 galactosyltransferase (globotriaosylceramide synthase, P blood group); lactosylceramide 4-alpha-galactosyltransferase; A14GALT; CD77 synthase; Gb3 synthase; Gb3S; globotriaosylceramide synthase; P(k); GB3 synthase; alpha4Gal-T1; P1/Pk synthase; P(k) antigen synthase; P blood group (P one antigen); alpha-1,4-N-acetylglucosaminyltransferase; UDP-galactose:beta-D-galactosyl-beta1-R 4-alpha-D-galactosyltransferase; P1; PK; A4GALT1;
Gene ID	53947
mRNA Refseq	NM_017436
Protein Refseq	NP_059132
MIM	607922
UniProt ID	Q9NPC4
Chromosome Location	22q13.2
Pathway	Glycosphingolipid biosynthesis - globo series, organism-specific biosystem; Glycosphingolipid biosynthesis - globo series, conserved biosystem; Glycosphingolipid biosynthesis, globo-series, LacCer => Gb4Cer, organism-specific biosystem; Glycosphingolipid biosynthesis, globo-series, LacCer => Gb4Cer, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	galactosyltransferase activity; lactosylceramide 4-alpha-galactosyltransferase activity; transferase activity, transferring glycosyl groups;

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