

Recombinant Human A4GALT (Q211E) Protein, His Tagged, Mutant

Cat. No. A4GALT-01HM **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human A4GALT (Q211E Mutant, 44-353aa) Protein with His tag was expressed in HEK293.

Species

Human

Source

HEK293

ProteinLength

44-353aa (Q211E)

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. This protein, a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor. Alternatively spliced transcript variants have been found for this gene.

Molecular Mass

37 kDa

AASequence

GEPKEKGQLYNLP AEIPCPTLTPPTPPSHGPTPGNIFFLETSDRTNPNFLFMCSVESA
 ARTHPESHVLVLMKGLPGGNASLPRHLGISLLSCFPNVQMLPLDLRELFRDTPLADW
 YAAVQGRWEPYLLPVLS DASRIALMWKFGGIYLDTFIVLKNLRNLTNVLGTESRYVL
 NGAFLAFERRHEFMALCMRDFVDHYNGWIWGHQGPQLLTRVFKKWCSIRSLAESR
 ACRGVTTLPPEAFYPIPWQDWKKYFEDINPEELPRLLSATYAVHVWNKKSQGTRFE
 ATSRALLAQLHARYCPTTHEAMKMYLGSGSGSHHHHHHHHHHH

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Endotoxin	< 1 EU/μg of the protein by LAL
Purity	>80% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4
Concentration	0.44 mg/mL by BCA

GENE INFORMATION

Gene Name	A4GALT alpha 1,4-galactosyltransferase (P1PK blood group) [Homo sapiens (human)]
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

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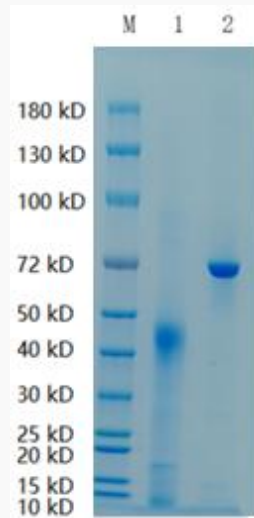
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MIM 607922

UniProt ID Q9NPC4

SDS-PAGE



Reducing 4%-20% SDS-PAGE (CBB stained) analysis profile of purified A4GALT. 1.
A4GALT: 1 μ g 2. BSA: 1 μ g

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