

Recombinant Human ALG2 Protein, Myc/DDK-tagged

Cat. No. ALG2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human asparagine-linked glycosylation 2, alpha-1, 3-mannosyltransferase homolog (<i>S. cerevisiae</i>) (ALG2), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
Description	This gene encodes a member of the glycosyltransferase 1 family. The encoded protein acts as an alpha 1, 3 mannosyltransferase, mannosylating Man(2)GlcNAc(2)-dolichol diphosphate and Man(1)GlcNAc(2)-dolichol diphosphate to form Man(3)GlcNAc(2)-dolichol diphosphate. Defects in this gene have been associated with congenital disorder of glycosylation type 1h (CDG-1h). Alternative splicing results in multiple transcript variants.
Molecular Mass	46.9 kDa
AA Sequence	MAEEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAALALQARGCSVKIWTAHYDP GHCFAESRELPVRCAGDWLPRGLGWGGRGAAVCAYVRMVFLALYVLFLADEEFDV VVCDQVSACIPVFRLLARRRKKILFYCHFPDLLLTKRDSFLKRLYRAPIDWIEEYTTGM ADCILVNSQFTAAVFKETFKSLSHIDPDVLYPSLNVTSFDSVVPEKLDDLVPKGKKFLL LSINRYERKKNLTLALEALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELK KMQVQSDLGQYVTFRLRSFSDKQKISLLHSCTCVLYTPSNEHFGIVPLEAMYMQCPVI AVNSGGPLESIDHSVTGFLCEPDVHFSEAIEKFIREPSLKATMGLAGRARVKEKFSP

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EAFTEQLYRYVTKLLVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name	ALG2 ALG2 alpha-1, 3/1, 6-mannosyltransferase [Homo sapiens (human)]
Official Symbol	ALG2
Synonyms	ALG2; ALG2 alpha-1, 3/1, 6-mannosyltransferase; CDG1I; CDGII; CMS14; NET38; CMSTA3; hALPG2; alpha-1, 3/1, 6-mannosyltransferase ALG2; GDP-Man:Man(1)GlcNAc(2)-PP-Dol alpha-1, 3-mannosyltransferase; GDP-Man:Man(1)GlcNAc(2)-PP-dolichol mannosyltransferase; GDP-Man:Man(2)GlcNAc(2)-PP-Dol alpha-1, 6-mannosyltransferase; alpha-1, 3-mannosyltransferase ALG2; asparagine-linked glycosylation 2 homolog (S. cerevisiae, alpha-1, 3-mannosyltransferase); asparagine-linked glycosylation 2 homolog (yeast, alpha-1, 3-mannosyltransferase); asparagine-linked glycosylation 2, alpha-1, 3-mannosyltransferase homolog; asparagine-linked glycosylation protein 2 homolog; homolog of yeast ALG2; EC 2.4.1.132; EC 2.4.1.257
Gene ID	85365

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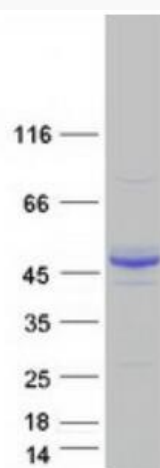
mRNA Refseq [NM_033087](#)

Protein Refseq [NP_149078](#)

MIM [607905](#)

UniProt ID [Q9H553](#)

SDS-PAGE



Coomassie blue staining of purified ALG2 protein. The protein was produced from HEK293T cells transfected with ALG2 cDNA clone using MegaTran 2.0.

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