

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 GHCFAESRELPVRCAGDWLPRGLGWGGRGAAVCAYVRMVFLALYVFLADEEFDV VVCDQVSACIPVFRRLARRRKKILFYCHFPDLLLTKRDSFLKRLYRAPIDWIEEYTTGM ADCILVNSQFTA AVFKETFKSLSHIDPDVLYPSLNVTSFDSVVPEKLDDLVPKGKKFLL LSINRYERKKNLTLALEALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELK KMQVQSDLGQYVTFRLRSFSDKQKISLLHSCTCVLYTPSNEHFGIVPLEAMYMQCPVI AVNSGGPLESIDHSVTGFLCEPDPVHFSEAIEKFIREPSLKATMGLAGRARVKEKFSP

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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; CDG11; CDG1i; 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

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