

## Recombinant Human ALG1, GST-tagged

**Cat. No.** ALG1-9569H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ALG1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	C-term-308a.a.
<b>Description</b>	The enzyme encoded by this gene catalyzes the first mannosylation step in the biosynthesis of lipid-linked oligosaccharides. This gene is mutated in congenital disorder of glycosylation type Ik.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

<b>Gene Name</b>	ALG1 asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	ALG1

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<b>Synonyms</b>	ALG1; asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog (S. cerevisiae); asparagine linked glycosylation 1 homolog (yeast, beta 1,4 mannosyltransferase); chitobiosyldiphosphodolichol beta-mannosyltransferase; HMAT1; HMT 1; mannosyltransferase-1; beta-1,4 mannosyltransferase; beta-1,4-mannosyltransferase; GDP-Man:GlcNAc2-PP-dolichol mannosyltransferase; asparagine-linked glycosylation protein 1 homolog; GDP-mannose-dolichol diphosphochitobiose mannosyltransferase; asparagine-linked glycosylation 1 homolog (yeast, beta-1,4-mannosyltransferase); HMT1; MT-1; CDG1K; HMT-1; Mat-1; hMat-1;
<b>Gene ID</b>	<a href="#">56052</a>
<b>mRNA Refseq</b>	<a href="#">NM_019109</a>
<b>Protein Refseq</b>	<a href="#">NP_061982</a>
<b>MIM</b>	<a href="#">605907</a>
<b>UniProt ID</b>	<a href="#">Q9BT22</a>
<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem; N-glycan precursor biosynthesis, organism-specific biosystem;
<b>Function</b>	chitobiosyldiphosphodolichol beta-mannosyltransferase activity; mannosyltransferase

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activity; transferase activity, transferring glycosyl groups;

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