

Recombinant Full Length Human DPM1 Protein, GST-tagged

Cat. No. DPM1-4079HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DPM1 full-length ORF (AAH08466.1, 1 a.a. - 260 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	260 amino acids
Description	Dolichol-phosphate mannose (Dol-P-Man) serves as a donor of mannosyl residues on the luminal side of the endoplasmic reticulum (ER). Lack of Dol-P-Man results in defective surface expression of GPI-anchored proteins. Dol-P-Man is synthesized from GDP-mannose and dolichol-phosphate on the cytosolic side of the ER by the enzyme dolichyl-phosphate mannosyltransferase. Human DPM1 lacks a carboxy-terminal transmembrane domain and signal sequence and is regulated by DPM2. Mutations in this gene are associated with congenital disorder of glycosylation type Ie. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2015]
Molecular Mass	56 kDa
AA Sequence	MASLEVSRGPRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSSEGIN YEIIIIIDDGSPDGTTRDVAEQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYYIIIMD ADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKGNGGVYGWDLKRKIISRGANFLTQILL RPGASDLTGSFRLYRKEVLEKLEKCVSKGYVFQMEMIVRARQMNYTIGEVPISFVD

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RVYGESKLGGNEIVSFLKGLLTLFATT

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

DPM1 dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit [[Homo sapiens](#)]

Official Symbol

[DPM1](#)

Synonyms

DPM1; dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit; dolichol-phosphate mannosyltransferase; CDGIE; MPDS; DPM synthase; MPD synthase; mannose-P-dolichol synthase; dolichol-phosphate mannose synthase; dolichol monophosphate mannose synthase; dolichyl-phosphate beta-D-mannosyltransferase;

Gene ID

[8813](#)

mRNA Refseq

[NM_003859](#)

Protein Refseq

[NP_003850](#)

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MIM	603503
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UniProt ID	O60762
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