

Recombinant Human DPM1 Protein, His-Tagged

Cat. No. DPM1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DPM1 Protein, His-tagged was expressed in E.coli cell
Species	Human
Source	E.coli
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.
Molecular Mass	The protein has a calculated MW of 30.45 kDa.
AA Sequence	HHHHHHMASLEVSRSPRRSR RELEVSRPRQ NKYSVLLPTYNERENLPLIV WLLVK SFSESGINYEIIID DGSPDGTRDVAEQLEKIYGSDRILLRPREK KLGLGTAYIHGMKH ATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVS GTRYKGNGGVYGWDLKRKIISR GANFLTQILLRPGASDLTGSFRLYRKEV LEKLIEKCVSKGYVFQMEMIVRARQLNYTI GEVPISFVDRVYGESKLGGN EIVSFLKGLLTLFATT
Purity	>90% by SDS-PAGE

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Storage	Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.4 mg/mL
Storage Buffer	PBS, pH 7.4

GENE INFORMATION

Gene Name	DPM1 dolichyl-phosphate mannosyltransferase subunit 1, catalytic [Homo sapiens (human)]
Official Symbol	DPM1
Synonyms	MPDS; CDGIE
Gene ID	8813
mRNA Refseq	NM_001317034.1
Protein Refseq	NP_001303963.1
MIM	603503
UniProt ID	O60762

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