

Recombinant Human DPM1 Protein, His/ABP-tagged

Cat. No. DPM1-315H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DPM1 protein with a N-terminal His6/ABP-tag was expressed in E. coli.
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	27 kDa
AA Sequence	SLEVSRSPRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSESGINYEII IIDDGSPDGTRDVAEQLEKIYGSD
Purity	> 80% by SDS-PAGE and Coomassie blue staining
Applications	Antibody Competition

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Notes	This product is intended to be used as a blocking antigen for antibody competition assays. Any other use of this antigen is done at the risk of the user. The use of this product for commercial production is strictly prohibited. Please contact technical support if you have any questions.
Storage	Store at -20 centigrade. Avoid freeze-thaw cycles.
Storage Buffer	PBS and 1M Urea, pH 7.4
Dilutions	Antibody Competition 10 - 100 molar excess
GENE INFORMATION	
Gene Name	DPM1 dolichyl-phosphate mannosyltransferase subunit 1, catalytic [Homo sapiens (human)]
Official Symbol	DPM1
Synonyms	DPM1; dolichyl-phosphate mannosyltransferase subunit 1, catalytic; MPDS; CDGIE; dolichol-phosphate mannosyltransferase subunit 1; DPM synthase complex, catalytic subunit; DPM synthase subunit 1; MPD synthase subunit 1; dolichol monophosphate mannose synthase; dolichol-phosphate mannose synthase subunit 1; dolichyl-phosphate beta-D-mannosyltransferase subunit 1; dolichyl-phosphate mannosyltransferase polypeptide 1 catalytic subunit; mannose-P-dolichol synthase subunit 1
Gene ID	8813
mRNA Refseq	NM_001317034
Protein Refseq	NP_001303963

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MIM	603503
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UniProt ID	O60762
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