



Recombinant Mouse Dolichol-phosphate mannosyltransferase (Dpm1)

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| Product Code | CSB-EP007134MO |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | O70152 |
| Product Type | Recombinant Protein |
| Immunogen Species | Mus musculus (Mouse) |
| Purity | >85% (SDS-PAGE) |
| Sequence | ASTGASRSL AASPRPPQGR SSRQDKYSVL LPTYNERENL PLIVWLLVKS FSESAINYEI IIIDDGSPDG TREVAEQLAE IYGPDRILLR PREKKLGLGT AYIHGIKHAT GNYVIIMDAD LSHHPKFIPE FIRKQKEGNF DIVSGTRYKG NGGVYGWDLK RKIISRGANF ITQILLRPGA SDLTGSFRLY RKEVLQKLIE KCVSKGYVFQ MEMIVRARQM NYTIGEVPI S FVDRVYGESK LGGNEIVSFL KGLLTLFATT |
| Source | E.coli |
| Target Names | Dpm1 |
| Protein Names | Recommended name: Dolichol-phosphate mannosyltransferase EC= 2.4.1.83 Alternative name(s): Dolichol-phosphate mannose synthase Short name= DPM synthase Dolichyl-phosphate beta-D-mannosyltransferase Mannose-P-dolichol synthase |
| Expression Region | 2-260 |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | Tag type will be determined during the manufacturing process. |
| Protein Length | Full Length of Mature Protein |
| Target Details | 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. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| Shelf Life | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. |



Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.