

Recombinant Human DHDDS Protein (1-333 aa), GST-tagged

Cat. No. DHDDS-2138H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DHDDS Protein (1-333 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-333 aa
Description	With DHDDS, forms the dehydrodolichyl diphosphate synthase (DDS) complex, an essential component of the dolichol monophosphate (Dol-P) biosynthetic machinery. Adds multiple copies of isopentenyl pyrophosphate (IPP) to farnesyl pyrophosphate (FPP) to produce dehydrodolichyl diphosphate (Dedol-PP), a precursor of dolichol which is utilized as a sugar carrier in protein glycosylation in the endoplasmic reticulum (ER). Regulates the glycosylation and stability of nascent NPC2, thereby promoting trafficking of LDL-derived cholesterol.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	65.7 kDa
AA Sequence	MSWIKEGELSLWERFCANIIKAGPMPKHIAFIMDGNRRYAKKCQVERQEGHSQGFN KLAETLRWCLNLGILEVTVYAFSIENFKRSKSEVDGLMDLARQKFSRLMEEKEKLQK HGVCIRVLGDLHLLPLDLQELIAQAVQATKNYNKCFNLVCFAYTSRHEISNAVREMA

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WGVEQGLLDPSDISESLLDKCLYTNRSPHPDILIRTSGEVRLSDFLLWQTSHSCLVF
QPVLWPEYTFWNLFMAILQFQMNHSVLQKARDMYAEERKRQQLERDQATVTEQLL
REGLQASGDAQLRRTLHKLKSARREERVQGFLQALELKRADWLARLGTASA

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage 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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name DHDDS dehydrodolichyl diphosphate synthase [Homo sapiens]

Official Symbol DHDDS

Synonyms DHDDS; FLJ13102; HDS; dedol-PP synthase; CIT; CPT; RP59;

Gene ID 79947

mRNA Refseq NM_001243564

Protein Refseq NP_001230493

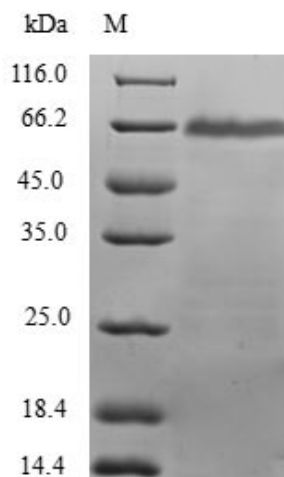
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MIM 608172

UniProt ID Q86SQ9



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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