

Recombinant Mouse Dhdds Protein, Myc/DDK-tagged

Cat. No. Dhdds-2543M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length dehydrodolichyl diphosphate synthase (Dhdds), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	With NUS1, forms the dehydrodolichyl diphosphate synthase (DDS) complex, an essential component of the dolichol monophosphate (Dol-P) biosynthetic machinery. Both subunits contribute to enzymatic activity, i.e. condensation of multiple copies of isopentenyl pyrophosphate (IPP) to farnesyl pyrophosphate (FPP) to produce dehydrodolichyl diphosphate (Dedol-PP), a precursor of dolichol phosphate which is utilized as a sugar carrier in protein glycosylation in the endoplasmic reticulum (ER). Synthesizes long-chain polyprenols, mostly of C95 and C100 chain length. Regulates the glycosylation and stability of nascent NPC2, thereby promoting trafficking of LDL-derived cholesterol.
Molecular Mass	38.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Dhdds dehydrololichyl diphosphate synthase [Mus musculus (house mouse)]

Official Symbol Dhdds

Synonyms DHDDS; dehydrololichyl diphosphate synthase; dedol-PP synthase; DS; HDS; W91638; 3222401G21Rik

Gene ID 67422

mRNA Refseq NM_026144

Protein Refseq NP_080420

UniProt ID Q99KU1

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