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Datasheet for ABIN7547025 DHDDS Protein (AA 1-333) (His tag)

Overview

Quantity:	1 mg
Target:	DHDDS
Protein Characteristics:	AA 1-333
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DHDDS protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat DHDDS Protein expressed in mammalien cells.
Sequence:	MSWIKEGELS LWERFCANII KAGPMPKHIA FIMDGNRRYA KKCQVERQEG HSQGFNKLAE TLRWCLNLGI LEVTVYAFSI ENFKRSKSEV DGLMDLARQK FSRLMEEKEK LQKHGVCIRV LGDLHLLPLD LQELIAQAVQ ATKNYNKCFL NVCFAYTSRH EISNAVREMA WGVEQGLLDP SDISESLLDK CLYTNRSPHP DILIRTSGEV RLSDFLLWQT SHSCLVFQPV LWPEYTFWNL FEAILQFQMN HSVLQKARDM YAEERKRQQL ERDQATVTEQ LLREGLQASG DAQLRRTRLH KLSARREERV QGFLQALELK RADWLARLGT ASA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	DHDDS
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Alternative Name:	DHDDS (DHDDS Products)
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Background:	<p>Dehydrodolichyl diphosphate synthase complex subunit DHDDS (EC 2.5.1.87) (Cis-isoprenyltransferase) (CIT) (Cis-IPTase) (Cis-prenyltransferase subunit hCIT) (Epididymis tissue protein Li 189m),FUNCTION: 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) (PubMed:25066056, PubMed:28842490, PubMed:32817466). Synthesizes long-chain polyprenols, mostly of C95 and C100 chain length (PubMed:32817466). Regulates the glycosylation and stability of nascent NPC2, thereby promoting trafficking of LDL-derived cholesterol (PubMed:21572394). {ECO:0000269 PubMed:21572394, ECO:0000269 PubMed:25066056, ECO:0000269 PubMed:28842490, ECO:0000269 PubMed:32817466}.</p>
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Molecular Weight:	38.7 kDa
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Target Details

UniProt: [Q86SQ9](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months