

Recombinant Human DPH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DPH1-2128H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DPH1 MS Standard C13 and N15-labeled recombinant protein (NP_001374) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an enzyme involved in the biosynthesis of diphthamide, a modified histidine found only in elongation factor-2 (EEF2). Diphthamide residues in EEF2 are targeted for ADP-ribosylation by diphtheria toxin and Pseudomonas exotoxin A. Defects in this gene have been associated with both ovarian cancer and autosomal recessive intellectual disability with short stature, craniofacial, and ectodermal anomalies.
Molecular Mass	48.6 kDa
AA Sequence	MRRQVMAALVVSAAEQGGRDGPGRGRAPRGRVANQIPPEILKNPQLQAAIRVLPS NYNFEIPKTIWRIQQAQAKKVALQMPEGLLLFACTIVDILERFTEAEVMVMGDVITYGA CCVDDFTARALGADFLVHYGHSCIPMDTSAQDFRVLYVFVDIRIDTTHLLDSLRLTF PPATALALVSTIQFVSTLQAAAQELKAEYRVSVPPQCKPLSPGEILGCTSPRLSKEVEA VVYLG DGRFHLESVMIANPNVPAYRYDPYSKVL SREHYDHQRMQAARQEAIATARS AKSWGLILGTLGRQGSPKILEHLESRLRALGLSFVRLLLSEIFPSKLSLLPEVDVWVQ VACPRLSIDWGTAFPKPLLTPYEAAVALRDISWQQPYPMDFYAGSSLGPTVNHGQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DRRPHAPGRPARGKVVQEGSARPPSAVACEDCSCRDEKVAPLAPTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DPH1 diphthamide biosynthesis 1 [Homo sapiens (human)]

Official Symbol DPH1

Synonyms DPH1; DPH1 homolog (S. cerevisiae); diptheria toxin resistance protein required for diphthamide biosynthesis like 1 (S. cerevisiae), DPH like 1 (S. cerevisiae), DPH2L, DPH2L1; diphthamide biosynthesis protein 1; ovarian tumor suppressor candidate 1; OVCA1; DPH-like 1; DPH2-like 1; ovarian cancer-associated gene 1 protein; candidate tumor suppressor in ovarian cancer 1; diphthamide biosynthesis protein 2 homolog-like 1; diptheria toxin resistance protein required for diphthamide biosynthesis-like 1; diptheria toxin resistance protein required for diphthamide biosynthesis (Saccharomyces)-like 1; DPH2L; DPH2L1; FLJ33211;

Gene ID 1801

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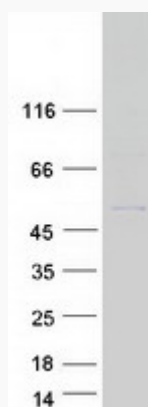
mRNA Refseq [NM_001383](#)

Protein Refseq [NP_001374](#)

MIM [603527](#)

UniProt ID [Q9BZG8](#)

SDS-PAGE



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