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	MRRQVMAALVVSGAAEQGGRDGPGRGRAPRGRVANQIPPEILKNPQLQAAIRVLPS NYNFEIPKTIWRIQQAQAKKVALQMPEGLLLFACTIVDILERFTEAEVMVMGDVTYGA CCVDDFTARALGADFLVHYGHSCLIPMDTSAQDFRVLYVFVDIRIDTTHLLDSLRLTF PPATALALVSTIQFVSTLQAAAQELKAEYRVSVPQCKPLSPGEILGCTSPRLSKEVEA VVYLGDGRFHLESVMIANPNVPAYRYDPYSKVLSREHYDHQRMQAARQEAIATARS AKSWGLILGTLGRQGSPKILEHLESRLRALGLSFVRLLLSEIFPSKLSLLPEVDVWVQ VACPRLSIDWGTAFPKPLLTPYEAAVALRDISWQQPYPMDFYAGSSLGPWTVNHGQ

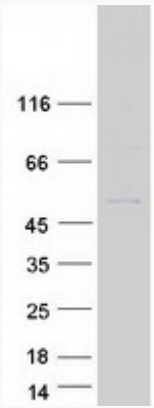
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	DRRPHAPGRPARGKVQEGSARPPSAVACEDCSCRDEKVAPLAPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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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