

Recombinant Human DPH5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DPH5-6497H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DPH5 MS Standard C13 and N15-labeled recombinant protein (NP_057042) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a component of the diphthamide synthesis pathway. Diphthamide is a post-translationally modified histidine residue found only on translation elongation factor 2. It is conserved from archaeobacteria to humans, and is targeted by diphtheria toxin and Pseudomonas exotoxin A to halt cellular protein synthesis. The yeast and Chinese hamster homologs of this protein catalyze the trimethylation of the histidine residue on elongation factor 2, resulting in a diphthine moiety that is subsequently amidated to yield diphthamide. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	31.5 kDa
AA Sequence	MLYLIGLGLGDAKDITVKGLEVVRRCSRVYLEAYTSVLTVGKEALEEFYGRKLVVADR EEVEQEADNILKDADISDVAFLVVGDPFGATTHTSDLVLRATKLGIPYRVIHNASIMNAV GCCGLQLYKFGETVSIVFWTDTWRPESFFDKVKKNRQNGMHTLCLLDIKVKEQSLE NLIKGRKIYEPPRYMSVNQAAQQLLEIVQNQRIRGEPAVTEETLCVGLARVGADDQ KIAAGTLRQMCTVDLGEPLHSLITGGSIHPEMEMLSLFSIPENSSESQSINGLTRTR

 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

PLEQKLISEEDLAANDILDYKDDDDKV

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	DPH5 diphthamide biosynthesis 5 [Homo sapiens (human)]
Official Symbol	DPH5
Synonyms	DPH5; DPH5 homolog (S. cerevisiae); diphthine synthase; CGI 30; protein x 0011; diphthamide biosynthesis methyltransferase; AD-018; CGI-30; NPD015; HSPC143; MGC61450;
Gene ID	51611
mRNA Refseq	NM_015958
Protein Refseq	NP_057042
MIM	611075

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

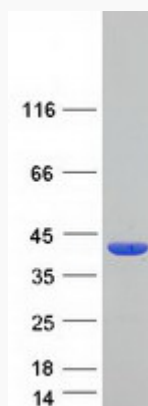
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

UniProt ID

Q9H2P9

SDS-PAGE

 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