

Recombinant Human DPH2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DPH2-2839H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DPH2 MS Standard C13 and N15-labeled recombinant protein (NP_001375) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is one of two human genes similar to the yeast gene dph2. The yeast gene was identified by its ability to complement a diphthamide mutant strain, and thus probably functions in diphthamide biosynthesis. Diphthamide is a post-translationally modified histidine residue present in elongation factor 2 (EF2) that is the target of diphtheria toxin ADP-ribosylation. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	52.1 kDa
AA Sequence	MESMFSSPAEALQRETGVPGLLTPLPDLG VYELERVAGFVRDLGCERVALQFPD QLLGDAVAVAAARLEETTGSKMFI LGDTAYGSCCV DVLGAEQAGA QALIHFGPA CLSP PARPLPVAFVLRQRSVALELCVKAFE AQNPDPKAPV VLLSEPACAHALEALATLLRP RYLDLLVSSPAFPQPVGSLSEPEMPLERFGRRFPLAPGRRLEEYGA FYVGGSKASP DPDLDPDLSRLLL GWAPGQPFS SSCPDTGKTQDEGARAGRLRARRRYLVERARDA RVVGLLAGTLGVAQHREALAHLRNLTQAAGKRSYVLALGRPTPAKLANFPEVDV FVL LACPLGALAPQLSGSFFQPILAPCELEAACNPAWPPPGLAPHLTHYADLLPGSPFHV

 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

ALPPPESELWETPDVSLITGDLRPPPAWKSSNDHGSLALTPRPQLELAESSPAASFL
SSRSWQGLEPRLGQTPVTEAVSGRRGIAIAYEDEGSGTRTRPLEQKLISEEDLAAND
ILDYKDDDDKV

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 DPH2 diphthamide biosynthesis 2 [*Homo sapiens* (human)]

Official Symbol DPH2

Synonyms DPH2; DPH2 homolog (*S. cerevisiae*); diphtheria toxin resistance protein required for diphthamide biosynthesis like 2 (*S. cerevisiae*), DPH2 like 2 (*S. cerevisiae*), DPH2L2; diphthamide biosynthesis protein 2; DPH2-like 2; diphthamide biosynthesis-like protein 2; diphthamide biosynthesis protein 2 homolog-like 2; diphtheria toxin resistance protein required for diphthamide biosynthesis-like 2; DPH2L2;

Gene ID 1802

mRNA Refseq NM_001384

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Protein Refseq	NP_001375
MIM	603456
UniProt ID	Q9BQC3

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