

Recombinant Full Length Human DPH5 Protein, GST-tagged

Cat. No. DPH5-4078HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DPH5 full-length ORF (NP_001070862.1, 1 a.a. - 285 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	285 amino acids
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 archaebacteria 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. [provided by RefSeq, Jul 2008]
Molecular Mass	58.1 kDa
AA Sequence	MLYLIGLGLGDAKDITVKGLEVVRRCSRVYLEAYTSVLTVGKEALEEFYGRKLVVADR EEVEQEADNILKDADISDVAFLVVGDPFGATTSDLVLRATKLGIPYRVIHNASIMNAV GCCGLQLYKFGETVSIVFWTDTWRPESFFDKVKKNRQNGMHTLCLLDIKVKEQSLE NLIKGRKIYEPPRYMSVNQAAQQLLEIVQNQRIRGEPAVTEETLCVGLARVGADDQ KIAAGTLRQMCTVDLGEPLHSLITGGSIHPPMEMEMLSLFSIPENSSESQSINGL

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	DPH5 DPH5 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	DPH5
Synonyms	DPH5; DPH5 homolog (<i>S. cerevisiae</i>); diphthine synthase; CGI 30; protein x 0011; diphthamide biosynthesis methyltransferase; AD-018; CGI-30; NPD015; HSPC143; MGC61450;
Gene ID	51611
mRNA Refseq	NM_001077394
Protein Refseq	NP_001070862
MIM	611075
UniProt ID	Q9H2P9

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