

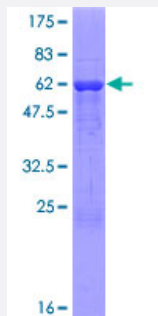
Full-Length

## DPH5 (Human) Recombinant Protein (P01)

Catalog # H00051611-P01

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human DPH5 full-length ORF ( NP\_001070862.1, 1 a.a. - 285 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MLYLIGLGLGDAKDITVKGLEVRRCSRYLEAYTSVLTVGKEALEEFYGRKLVVADREEVEQEAD  
NILKDADISDVAFLVVGDPFGATTHSDLVLRATKLGPYRVIHNASIMNAVGCCGLQLYKFGETVSN  
FWTDTWRPESFFDKVKKNRQNGMHTLCLLDIKVKEQSLENLIKGRKIYEPPTYMSVNQAAQQLLEI  
VQNQRIRGEPAVTEETLCVGLARVGADDQKIAAGTLRQMCTVDLGEPLHSLITGGSIHPEMEM  
LSLFSIPENSSESQSINGL

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

58.1

#### Interspecies Antigen Sequence

Mouse (91); Rat (91)

#### Preparation Method

[in vitro wheat germ expression system](#)

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

#### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — DPH5

**Entrez GeneID**[51611](#)**GeneBank Accession#**[NM\\_001077394.1](#)**Protein Accession#**[NP\\_001070862.1](#)**Gene Name**

DPH5

**Gene Alias**

AD-018, CGI-30, HSPC143, MGC61450, NPD015

**Gene Description**

DPH5 homolog (S. cerevisiae)

**Omim ID**[611075](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

**Other Designations**

OTTHUMP00000012522|OTTHUMP00000012523|OTTHUMP00000012524|diphthamide biosynthesis methyltransferase|diphthine synthase|protein x 0011