

# Recombinant Full Length Human DPH1 Protein, GST-tagged

**Cat. No.** DPH1-4073HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Human DPH1 full-length ORF ( NP_001374, 1 a.a. - 363 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 363 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | <p>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. [provided by RefSeq, Oct 2016]</p> |
| <b>Molecular Mass</b>   | 65.56 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MPEGLLLFACTIVDILERFTEAEVMVMGDTVYGACCVDDFTARALGADFLVHYGHSC<br>LIPMDTSAQDFRVLVYFVDIRIDTTHLLDSLRLTFPPATALALVSTIQFVSTLQAAAQEL<br>KAEYRVSVPPQCKPLSPGEILGCTSPRLSKEVEAVVYLGDRGFHLESVMIANPNVPAY<br>RYDPYSKVLRSREHYDHQRMQAARQEAIATARSASWSGLILGTGRQGSPKILEHLES<br>RLRALGLSFVRLLLSEIFPSKLSLLPEVDVWVQVACPRLSIDWGTAFPKPLLTPEYAA<br>VALRDISWQQPYPMDFYAGSSLGPWTVNHGQDRRPHAPGRPARGKVQEGSARPP<br>SAVACEDCSCRDEKVAPLAP                                                                                          |

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| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>        | DPH1 DPH1 homolog ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b>  | DPH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>         | DPH1; DPH1 homolog ( <i>S. cerevisiae</i> ); diphtheria toxin resistance protein required for diphthamide biosynthesis like 1 ( <i>S. cerevisiae</i> ) , DPH like 1 ( <i>S. cerevisiae</i> ) , 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; diphtheria toxin resistance protein required for diphthamide biosynthesis-like 1; diphtheria toxin resistance protein required for diphthamide biosynthesis ( <i>Saccharomyces</i> )-like 1; DPH2L; DPH2L1; FLJ33211; |
| <b>Gene ID</b>          | 1801                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>      | NM_001383                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_001374                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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