

## Recombinant Human LHPP, His-tagged

Cat. No. LHPP-28094TH Lot. No. (See product label)

### SPECIFICATION

|                           |  |
|---------------------------|--|
| <b>Product Overview</b>   | Recombinant full length Human LHPP fused to an N terminal His and DDDDK tag, 307 amino acids predicted Mwt: 33.5 kDa inclusive of tags   |
| <b>Species</b>            | Human  |
| <b>Source</b>             | E.coli   |
| <b>ProteinLength</b>      | 270 amino acids  |
| <b>Description</b>        | LHPP is a member of the HAD-like hydrolase superfamily. It is a unique enzyme that hydrolyzes not only oxygen-phosphorus bonds in inorganic pyrophosphate but also nitrogen-phosphorus bonds in phospholysine, phosphohistidine and imidodiphosphate in vitro. |
| <b>Conjugation</b>        | HIS  |
| <b>Molecular Weight</b>   | 33.500kDa inclusive of tags  |
| <b>Tissue specificity</b> | Expressed in liver, kidney and moderately in brain.  |
| <b>Form</b>               | Liquid   |
| <b>Purity</b>             | >90% by SDS-PAGE   |
| <b>Storage buffer</b>     | pH: 8.00 Constituents: 10% Glycerol, 0.32% Tris HCl, 0.02% DTT, 0.58% Sodium   |

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|                                 |  |
|---------------------------------|--|
|                                 | chloride   |
| <b>Storage</b>                  | Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.  |
| <b>Sequences of amino acids</b> | MRGSHHHHP WYASMTGGQQ MGRDLYDDDD KDRWGSHMAP WGKRLAGVRG<br>VLLDISGVLY DSGAGGGTAI AGSVEAVARL KRSRLKVRFC TNESQKSRAE<br>LVGQLQRLGF DISEQEV TAP APAACQILKE QGLRPYLLIH DGVRSEFDQI<br>DTSNPNCVVI ADAGESFSYQ NMNNAFQVLM ELEKPVLISL GKGRYYKETS<br>GLMLDVGPYM KALEYACGIK AEVVGKPSPE FFKSALQAIG VEAHQAVMIG<br>DDIVGDVGG A QRCGMRALQV RTGKFRPSDE HHPEVKADGY VDNLAEAVDL<br>LLQHADK |
| <b>Sequence Similarities</b>    | Belongs to the HAD-like hydrolase superfamily.   |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | <a href="#">LHPP phospholysine phosphohistidine inorganic pyrophosphate phosphatase [ Homo sapiens ]</a> |
| <b>Official Symbol</b> | <a href="#">LHPP</a>   |
| <b>Synonyms</b>        | LHPP; phospholysine phosphohistidine inorganic pyrophosphate phosphatase;<br>HDHD2B;                     |
| <b>Gene ID</b>         | <a href="#">64077</a>  |
| <b>mRNA Refseq</b>     | <a href="#">NM_022126</a>  |
| <b>Protein Refseq</b>  | <a href="#">NP_071409</a>  |

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| <b>Uniprot ID</b>          | Q9H008   |
| <b>Chromosome Location</b> | 10q26.2  |
| <b>Pathway</b>             | Oxidative phosphorylation, organism-specific biosystem; Oxidative phosphorylation, conserved biosystem;  |
| <b>Function</b>            | hydrolase activity; inorganic diphosphatase activity; magnesium ion binding; phosphohistidine phosphatase activity; protein homodimerization activity; |

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