Recombinant Human Phospholysine PhosphoHistidine Inorganic Pyrophosphate Phosphatase, His-tagged

Cat. No. LHPP-1319H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LHPP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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. LHPP is expressed in liver, kidney and moderately in brain.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.1 M NaCl.
Molecular Weight	33.5 kDa (307 aa) confirmed by MALDI-TOF
Purity	> 90 % by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford)
Sequences of amino acids	MRGSHHHHHP WYASMTGGQQ MGRDLYDDDD KDRWGSHMAP WGKRLAGVRG VLLDISGVLY DSGAGGGTAI AGSVEAVARL KRSRLKVRFC TNESQKSRAE LVGQLQRLGF DISEQEVTAP APAACQILKE QGLRPYLLIH DGVRSEFDQI

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

	DTSNPNCVVI ADAGESFSYQ NMNNAFQVLM ELEKPVLISL GKGRYYKETS GLMLDVGPYM KALEYACGIK AEVVGKPSPE FFKSALQAIG VEAHQAVMIG DDIVGDVGGA QRCGMRALQV RTGKFRPSDE HHPEVKADGY VDNLAEAVDL LLQHADK
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Oxidative phosphorylation

GENE INFORMATION

Gene Name	LHPP phospholysine phosphohistidine inorganic pyrophosphate phosphatase [Homo sapiens]
Official Symbol	LHPP
Synonyms	LHPP; phospholysine phosphohistidine inorganic pyrophosphate phosphatase; HDHD2B; FLJ44846; FLJ46044; MGC117251; MGC142189; MGC142191; phospholysine phosphohistidine inorganic pyrophosphate phosphatase; Hlhpp; OTTHUMP00000020691; OTTHUMP00000020692; OTTHUMP00000020693; NP_001161352.1; EC 3.6.1.1
Gene ID	64077
mRNA Refseq	NM_001167880
Protein Refseq	NP_001161352
UniProt ID	Q9H008

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Chromosome Location	10q26.2
Function	hydrolase activity; inorganic diphosphatase activity; magnesium ion binding; phosphohistidine phosphatase activity; protein homodimerization activity

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