

## LHPP Human

**Description:** LHPP Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 307 amino acids (1-270) and having a molecular mass of 33.5kDa. LHPP is fused to a 37 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-582

For research use only.

**Synonyms:** Phospholysine phosphohistidine inorganic pyrophosphate phosphatase, hLHPP, LHPP, HDHD2B.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MRGSHHHHP WYASMTGGQQ MGRDLYDDDD KDRWGSHMAP  
WGKRLAGVRG VLLDISGVLY DSGAGGGTAI AGSVEAVARL KRSRLKVRFC TNESQKSRAE  
LVGQLQRLGF DISEQEV TAP APAACQILKE QGLRPYLLIH DGVRSEFDQI DTSNPNCVVI  
ADAGESFSYQ NMNNAFQVLM ELEKPVLSL GKGRYYKETS GLMLDVGPYM KALEYACGIK  
AEVVGKPSPE FF

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The LHPP solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Phospholysine phosphohistidine inorganic pyrophosphate phosphatase (LHPP) belongs to the HAD-like hydrolase superfamily. LHPP is an exceptional enzyme which 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 the liver, kidney and moderately in the brain.

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