

Recombinant human HDHD2B/LHPP protein

Catalog Number: ATGP1319

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-270aa

UniProt No.

Q9H008

NCBI Accession No.

NP_071409.3

Alternative Names

phospholysine phosphohistidine inorganic pyrophosphate phosphatase, HDHD2B

PRODUCT SPECIFICATION

Molecular Weight

33.5 kDa (307aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl, 0.1mM PMSF

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Phospholysine phosphohistidine inorganic pyrophosphate phosphatase, also known as 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. Recombinant human LHPP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

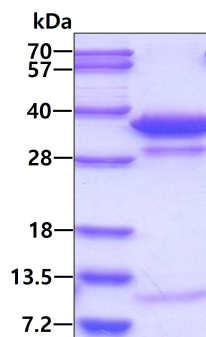
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AGSVEAVARL KRSRLKVRFC TNESQKSRAE LVGQLQRLGF DISEQVTAP APAACQILKE QGLRPYLLIH DGVRSEFDQI
DTSNPNCVVI ADAGESFSYQ NMNNAFQVLM ELEKPVLSL GKGRYYKETS GLMLDVGPYM KALEYACGIK AEVVGKPSPE
FFKSALQAIG VEAHQAVMIG DDIVGDVGGA QRCGMRALQV RTGKFRPSDE HHPEVKADGY VDNLAEAVDL LLQHADK

General References

Neff C D., et al. (2009) Mol Psychiatry. 14:621-630.
Chen L., et al. (2005) Front Biosci. 10:1961-1976.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.