Recombinant human PHPT1 protein

Catalog Number: ATGP0751

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-125aa

UniProt No.
Q9NRX4

NCBI Accession No.
NP_054891

Alternative Names
14 kDa phosphohistidine phosphatase, bA216L13.10, CGI-202, DKFZp564M173, HSPC141, PHP14, RP11-216L13.10

PRODUCT SPECIFICATION

Molecular Weight
15.9 kDa (145aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 2mM DTT, 10% glycerol

Purity
> 95% 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
PHPT1 is a 125 amino acid enzyme belonging to the Janus protein family. Existing as a monomer in the cytoplasm, PHPT1 is an EDTA-insensitive phosphohistidine phosphatase. Overexpression of PHPT1 leads to specific phosphohistidine phosphatase activity towards phosphopeptide I, with no activity detected towards phosphotyrosine, phosphothreonine and phosphoserine peptides. Recombinant human PHPT1 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

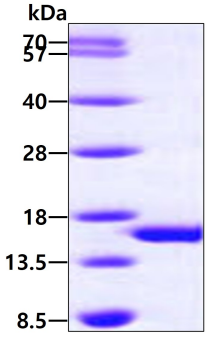
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General References

Srivastava S., et al. (2008) Proc Natl Acad Sci u S A. 105(38):14442-6.
van Vlierberghe P., et al. (2006) Leukemia. 20(7):1245-53.

DATA

SDS-PAGE



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