

Recombinant Human PhosphoHistidine Phosphatase 1, His-tagged

Cat. No. PHPT1-800H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PHPT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 15.9 kDa (145aa) confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAVADLALIP DVDIDSDGVF KYVLIRVHSA PRSGAPAAES KEIVRGYKWA EYHADIYDKV SGDMQKQGCD CECLGGGRIS HQSQDKKIHV YGYSMAYGPA QHAISTEKIK AKYPDYEVTW ANDGY
Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 2mM DTT, 10% glycerol.
Concentration	0.5 mg/ml (determined by Bradford assay).

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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.

GENE INFORMATION
Gene Name

PHPT1 phosphohistidine phosphatase 1 [Homo sapiens]

Synonyms

PHPT1; phosphohistidine phosphatase 1; PHP14; CGI-202; HSPC141; bA216L13.10; DKFZp564M173; RP11-216L13.10; 14 kDa phosphohistidine phosphatase; 1700008C22Rik; OTTHUMP00000022620; protein janus-A homolog; sex-regulated protein janus-a; phosphohistidine phosphatase 14kDa; EC 3.1.3.-

Gene ID

29085

mRNA Refseq

NM_001135861

Protein Refseq

NP_001129333

MIM

610167

UniProt ID

Q9NRX4

Chromosome Location

9q34.3

Pathway

Fructose and mannose metabolism; Metabolic pathways; Riboflavin metabolism; Thiamine metabolism

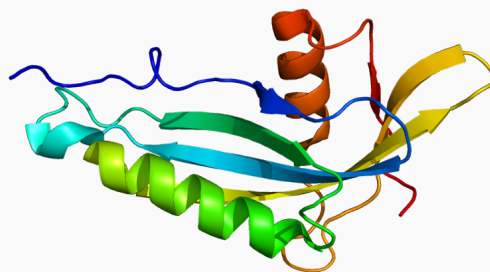
Function

hydrolase activity; phosphohistidine phosphatase activity; phosphoprotein phosphatase activity

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