

Product information

PHPT1, 1-125aa

Human, His-tagged, Recombinant, *E.coli*

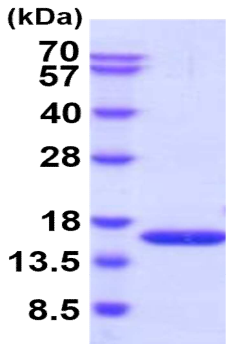
Cat. No. IBATGP3560

Full name: 14 kDa phosphohistidine phosphatas

NCBI Accession No.: NP_054891

Synonyms: bA216L13.10, CGI-202, DKFZp564M173, HSPC141, PHP14, RP11-216L13.10.

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.

<p>Form: Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 2mM DTT, 10% glycerol</p> <p>Molecular Weight: 15.9 kDa (145aa), confirmed by MALDI-TOF</p> <p>Purity: > 95% by SDS - PAGE.</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p> <p>Biological activity: Specific activity is >120 units/mg, and is defined as the amount of enzyme that hydrolyze 1nmol f p-nitrophenyl phosphate per minute at pH7.5 at 37C.</p>	 <p>(kDa) 70 57 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p><u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MAVADLALIP DVDIDSDGVF KYVLIRVHSA PRSGAPAAES KEIVRGYKWA EYHADIDYDKV SGDMQKQGCD CECLGGGRIS HQSQDKKIHV YGYSMAYGPA QHAISTEKIK AKYPDYEVTW ANDGY</p>	

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.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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