

## 32-6885: PHPT1 Human, Active

**Application :** Functional Assay  
**Alternative Name :** PHP14, CGI-202, HSPC141, Phosphohistidine Phosphatase 1, Phosphohistidine Phosphatase 14kDa, Protein janus-A homolog, Sex-regulated protein Janus-a.

### Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

PHPT1 is a member of the Janus protein family and is 125 amino acid long. PHPT1 appears as a monomer in the cytoplasm and is an EDTA-insensitive phosphohistidine phosphatase. Overexpression of PHPT1 results in specific phosphohistidine phosphatase activity towards phosphopeptide I, with no activity detected towards phosphotyrosine, phosphothreonine and phosphoserine peptides.

PHPT1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 145 amino acids (1-125a.a.) and having a molecular mass of 15.9kDa. PHPT1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The PHPT1 protein solution (0.5mg/ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MAVADLALIP DVDIDSDGVF KYVLIRVHSA PRSGAPAAES KEIVRGYKWA EYHADIYDKV SGDMQKQGCD CECLGGGRIS HQSQDKKIHV YGYSMAYGPA QHAISTEKIK AKYPDYEVTW ANDGY.

### Application Note

Specific activity is >120 units/mg, and is defined as the amount of enzyme that hydrolyze 1nmol of p-nitrophenyl phosphate per minute at pH7.5 at 37°C.