
Product Data Sheet

Product Name: PHPT1 Human, Active

Cat. No.: GP22087

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PHP14; CGI-202; HSPC141; Phosphohistidine Phosphatase 1; Phosphohistidine Phosphatase 14kDa; Protein janus-A homolog; Sex-regulated protein Janus-a.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAVADLALIP DVDIDSDGVF KYVLIRVHSA PRSGAPAAES KEIVRGYKWA EYHADIYDKV SGDMQKQGCD CECLGGGRIS HQSQDKKIHV YGYSMAYGPA QHAISTEKIK AKYPDYEVTW ANDGY.		
Formulation	The PHPT1 protein solution (0.5mg/ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 10% glycerol.		

Introduction

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.

Biological Activity

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.

Stability

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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