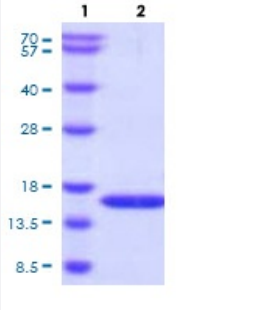
Bioactive Full-Length

PHPT1 (Human) Recombinant Protein

Catalog # P8010 Size 100 ug

Applications



Specification

Product Description	Human PHPT1 (Q9NRX4, 1 a.a. - 125 a.a.) full length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	MAVADLALIPDVDIDSDGVFKYVLIRVHSAPRSGAPAAESKEIVRGYKWAEYHADIYDKVSGDMQK QGCDCECLGGGRISHQSQDKKIHVYGYSMAYGPAQHAISTEKIKAKYPDYEVTWANDGY
Host	Escherichia coli
Theoretical MW (kDa)	15.9
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Activity	Specific activity is > 120 unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmole of p-nitrophenyl phosphate per minute at pH 7.5 at 37°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In 20mM Tris-HCl pH 8.0 (10% glycerol, 0.2 M NaCl, 2 mM DTT)

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Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PHPT1

Entrez GeneID	29085
Protein Accession#	Q9NRX4
Gene Name	PHPT1
Gene Alias	CGI-202, DKFZp564M173, HSPC141, PHP14, bA216L13.10
Gene Description	phosphohistidine phosphatase 1
Omim ID	610167
Gene Ontology	Hyperlink
Gene Summary	PHPT1 is an EDTA-insensitive phosphohistidine phosphatase that catalyzes the dephosphorylation of phosphopeptide I (Ek et al., 2002 [PubMed 12383260]).[supplied by OMIM
Other Designations	1700008C22Rik|OTTHUMP00000022619|phosphohistidine phosphatase 14kDa|sex-regulated protein janus-a

Pathway

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

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