Datasheet for ABIN6388004

PHPT1 Protein (AA 1-125) (His tag)

1 Image

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Overview

Quantity:	100 µg
Target:	PHPT1
Protein Characteristics:	AA 1-125
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PHPT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MGSSHHHHHH SSGLVPRGSH MAVADLALIP DVDIDSDGVF KYVLIRVHSA PRSGAPAAES KEIVRGYKWA EYHADIYDKV SGDMQKQGCD CECLGGGRIS HQSQDKKIHV YGYSMAYGPA QHAISTEKIK AKYPDYEVTW ANDGY
Purity:	> 95 % by SDS - PAGE
Biological Activity Comment:	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.

Target Details

Target:	PHPT1
Alternative Name:	PHPT1 (PHPT1 Products)

Target Details

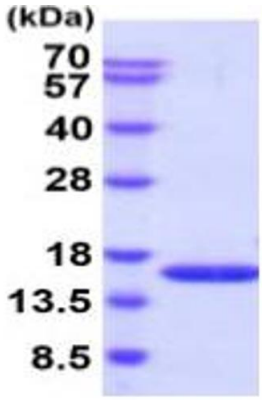
Background:	PHPT1 is a 125 amino acid enzyme belonging to the Janus protein family. Existing as a monomer in the cytoplasm, PHPT1 is an EDTA-insensitive phosphohistidine phosphatase. Overexpression of PHPT1 leads to specific phosphohistidine phosphatase activity towards phosphopeptide I, with no activity 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.
Molecular Weight:	15.9 kDa (145aa), confirmed by MALDI-TOF
NCBI Accession:	NP_054891
UniProt:	Q9NRX4
Pathways:	Positive Regulation of Peptide Hormone Secretion

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 2 mM DTT, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

SDS-PAGE

Image 1.