

Recombinant Human PHOSPHO1, His-tagged

Cat. No. PHOSPHO1-1028H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 295 AA. MW: 31.3 kDa (calculated). N-Terminal His-tag 14 AA (highlighted).
Species	Human
Source	E.coli
Description	PHOSPHO1 is an ethanolamine derivative that is used to construct sphingomyelins.
Form	Filtered (0, 4 µm) and lyophilized in 0.5 mg/mL in 0.03 M Acetate buffer, pH 4
Research topic	Energy metabolism and body weight regulation
Purity	>95%
Reconstitution	Add 0.1 M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

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**Sequences of amino acids**

MRGSHHHHHH GMASMSGCFP VSGLRCLSRD GRMAAQGAPR FLLTFDFDET
IVDENSDDSI VRAAPGQRLP ESLRATYREG FYNEYMQRVF KYLGEQGVPR
RDLsAIYEAI PLSPGMSDLL QFVAKQGACF EVILISDANT FGVESLRAA
GHHSLFRRIL SNPSGPDARG LLALRPFHTH SCARCPANMC KHKVLS DYLR
ERAHDGVHFE RLFYVGDGAN DFCPMGLLAG GDVAFPRRGY PMHRLIQEAQ
KAEPSSFRAS VVPWETAADV RLHLQQVLKS C

Storage

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION**Gene Name**

PHOSPHO1 phosphatase, orphan 1 [Homo sapiens]

Official Symbol

PHOSPHO1

Synonyms

PHOSPHO1; phosphatase, orphan 1; phosphoethanolamine/phosphocholine phosphatase; OTTHUMP00000220006; OTTHUMP00000220008; OTTHUMP00000220009

Gene ID

162466

mRNA Refseq

NM_001143804

Protein Refseq

NP_001137276

UniProt ID

Q8TCT1

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Chromosome Location	17q21
Pathway	Glycerophospholipid metabolism; Metabolic pathways
Function	hydrolase activity; metal ion binding; phosphoethanolamine/phosphocholine phosphatase activity

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