

## PHOSPHO1 Protein, Human (His)

<b>Cat. No.:</b>	HY-P75974
<b>Synonyms:</b>	Phosphoethanolamine/phosphocholine phosphatase; PHOSPHO1
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q8TCT1 (M1-C267)
<b>Gene ID:</b>	162466
<b>Molecular Weight:</b>	Approximately 32 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MSGCFPVSGL   RCLSRDGRMA   AQGAPRFLLT   FDFDETIVDE NSDDSIIVRAA   PGQRLPESLR   ATYREGFYNE   YMQRVFKYLG EQGVRPRDLS   AIYEAIPLSP   GMSDLLQFVA   KQGACFEVIL ISDANTFGVE   SSLRAAGHHS   LFRRI LSNPS   GPDARGLLAL RPFHTHSCAR   CPANMCKHKV   LSDYLREERAH  DGVHFERLFY VGDGANDFCP   MGLLAGGDVA   FPRRGYPMHR   LIQEAQKAEP SSFRASVVPW   ETAADVRLHL   QQVLKSC </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, 300mM L-Arginine, pH 7.0 or 20 mM PB, 200 mM NaCl, pH 8.0, 10% Glycerol.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	PHOSPHO1 Protein is a phosphatase with high activity toward phosphoethanolamine (PEA) and phosphocholine (PCho), playing a crucial role in the generation of inorganic phosphate for bone mineralization. It collaborates with PHOSPHO1 in
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skeletal mineralization, where PHOSPHO1 initiates hydroxyapatite crystallization in matrix vesicles (MVs), and ALPL/TNAP catalyzes the spread of hydroxyapatite crystallization in the extracellular matrix.

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

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