

PPA1 Protein, *S. cerevisiae* (His)

Cat. No.:	HY-P79310
Synonyms:	Inorganic pyrophosphatase; IPP1; Pyrophosphate phospho-hydrolase; PPase; PPA; PPA1
Species:	Human
Source:	<i>E. coli</i>
Accession:	A6ZKV8 (M1-V287)
Gene ID:	852296
Molecular Weight:	Approximately 34.19 kDa

PROPERTIES

AA Sequence	<pre> MTYTTTRQIGAKNTLEYKVYIEKDGKPVSAFHDIPLYADKE NNIFNMVVEIPRWTNAKLEITKEETLNPIIQDTKKGKLRF VRNCFPHHGYIHNYGAFPQTWEDPNVSHPETKAVGDNDPI DVL EIGETIAYTGQVKQVKA LGIMALLDEGETDWKVI AID INDPLAPKLN DIEDVEKYFPGLLRATNEWR IYKIPDGKP ENQFAFSGEAKNKKYALDI KETHDSWKQL IAGKSSDSKG IDL TNVTLPD TPTYSKAASDAIPPASPKAD APIDKSIDKW FFISGSV </pre>
Biological Activity	Measured by its ability to hydrolyze pyrophosphate. The specific activity is 167023 pmol/min/μg, as measured under the described conditions.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 10 mM Tris, 50 mM NaCl, 1 mM DDT, 0.1 mM EDTA, 50% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	The PPA1 Protein is an integral member of the PPase family, highlighting its significant role in cellular processes. As part of this enzyme family, PPA1 likely shares conserved structural and functional features with related proteins, signifying its
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involvement in phosphatase activities. The classification within the PPase family underscores its specific designation within the broader context of phosphatases, providing insights into its unique enzymatic functions. The study of PPA1 contributes to our understanding of its role in cellular processes related to dephosphorylation, offering potential applications in therapeutic interventions and a deeper comprehension of its broader impact on cellular processes involved in phosphate metabolism. Further exploration of PPA1's role holds promise for enhancing our knowledge of its contributions to both normal physiology and pathological conditions.

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

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