

Recombinant Human Pyrophosphatase (inorganic) 1, His-tagged

Cat. No. PPA1-1397H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	PPA1 belongs to the PPA1 family. This protein is an enzyme that catalyzes the conversion of one molecule of pyrophosphate to two phosphate ions. PPA1 catalyzes this hydrolysis reaction in the early steps of lipid degradation, a prominent example of this phenomenon. By promoting the rapid hydrolysis of pyrophosphate (PPi), PPA1 provides the driving force for the activation of fatty acids destined for oxidation.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl.
Molecular Weight	35.2 kDa(313aa), confirmed by MALDI-TOF.
Purity	> 95% by SDS-PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of	MGSSHHHHHSSGLVPRGSH MGSHMSGFST EERAAPFSLE YRVFLKNEKG

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aminoacids

QYISPFHDIP IYADKDV FHMVVEVPRWSNA KMEIATKDPL NPIKQDVKKG
 KLRYVANLFP YKGYIWNYGA IPQTWEDPGH NDKHTGCCGDNDPIDVCEIG
 SKVCARGEII GVKVLGILAM IDEGETDWKV IAINVDDPDA ANYNDINDVK
 RLKPGYLEATVDWFRYKVP DGKPENEFAP NAEFKDKDFA IDIIKSTHDL
 WKALVTKKTN GKGISCMNTT LSESPFKCDPDAARAIVDAL PPPCESACTV
 PTDVDKWFHH QKN

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

nullValue_other

Pathways

CytosolictRNA aminoacylation; Gene Expression; Hypothetical Network for Drug Addiction;Oxidative phosphorylation; Oxidative phosphorylation

GENE INFORMATION

Gene Name

PPA1pyrophosphatase (inorganic) 1 [Homo sapiens]

Official Symbol

PPA1

Synonyms

PPA1; pyrophosphatase (inorganic) 1; inorganicpyrophosphatase 1; PP; PP1; IOPPP; MGC111556; SID6-8061; PPase;pyrophosphatase 1; inorganic diphophatase;Inorganic pyrophosphatase 1; diphophatasepyrophosphatase;pyrophosphate phosphor-hydrolase; cytosolic inorganic pyrophosphatase; EC3.6.1.1; Pyrophosphate phosphor-hydrolase;; pyrophosphatase (inorganic); Ppase; OTTHUMP00000019741;OTTHUMP00000019742

Gene ID

5464

mRNA Refseq

NM_021129

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Protein Refseq	NP_066952
MIM	179030
UniProt ID	Q15181
Chromosome Location	10q11.1-q24

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