

**PPA1, 1-289aa, Human, His tag, E.coli**

**Cat.NO.: TP03479**

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3th Edition

**Synonyms:**Inorganic pyrophosphatase, IOPPP, PP, PP1, SID6-8061.

**Description:**PPA1 (Pyrophosphatase) belongs to the PPase family. This protein is an enzyme that catalyzes the conversion of one molecule of pyrophosphate to two phosphate ions. The hydrolysis of inorganic pyrophosphate (PPi) to two phosphate ions is utilized in many biochemical pathways to render reactions effectively irreversible. Inorganic pyrophosphatase catalyzes this hydrolysis reaction in the early steps of lipid degradation, a prominent example of this phenomenon.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl

**Molecular Weight:**35.2kDa (313aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMSGHMSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPIYADKDFHMMVVEVP  
RWSNAKMEIATKDPLNPIKQDVKKGKLRVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGS  
KVCARGEIIGVKVLGILAMIDEGETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRRYKVPDGKPENEF  
AFNAEFKDKDFAIDIIKSTHDKALVTKKTNGKGISCMNTTLESPFKCDPDAARAIVDALPPPCESACTVPTDVK  
WFHHQKN

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.