

**PPA2, 33-334aa, Human, His tag, E.coli**

**Cat.NO.: TP03480**

3th Edition

**Synonyms:**Inorganic pyrophosphatase 2, mitochondrial isoform 1, Pyrophosphatase (inorganic) 2, HSPC124, SID6-306

**Description:**PPA2 is localized to the mitochondrion, is highly similar to members of the inorganic pyrophosphatase (PPase) family, and contains the signature sequence essential for the catalytic activity of PPase. PPases catalyze the hydrolysis of pyrophosphate to inorganic phosphate, which is important for the phosphate metabolism of cells. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. Recombinant human PPA2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Molecular Weight:**37.1 kDa (325aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSALYHTEERGQPCSQNYRLFFKNVTGHYISPFHDIPLKVNSKEENGIPMKKAR  
NDEYENLNFNMIVEIPRWTKNAKMEIATKEPMNPIKQYVKDGLRYVANIFPYKGYIWNYGTLPTWEDPHEKDKSTN  
CFGDNDPIDVCEIGSKILSCGEVIHVKILGILALIDEGETDWKLIANANDPEASKFHDIDDVKKFKPGYLEATLNWFRL  
YKVPDGKPENQFAFNGEFKNKAFLEVIKSTHQCWKALLMKKCNGGAINCTNVQISDSPFRCTQEEARSLVESVSS  
SPNKESNEEEQVWHFLGK

**Purity:**> 95% by HPLC

**Concentration:**1.0 mg/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.