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## Product Data Sheet

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Product Name: PPA1 Human  
 Cat. No.: GP22126  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pyrophosphatase (inorganic) 1; PP; PP1; IOPPP; SID6-8061; Pyrophosphate phospho-hydrolase; PPase; cytosolic inorganic pyrophosphatase; diphosphate phosphohydrolase; inorganic diphosphatase; EC 3.6.1.1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMSGFST EERAAPFSLE YRVFLKNEKG QYISPFHDIP IYADKDVFHM VVEVPRWSNA KMEIATKDPL NPIKQDVKKG KLRYVANLFP YKGYIWNRYGA IPQTWEDPGH NDKHTGCCGD NDPIDVCEIG SKVCARGEII GVKVLGILAM IDEGETDWKV IAINVDDPDA ANYNDINDVK RLKPGYLEAT VDWFRRYKVP DGKPENEFAP NAEFKDKDFA IDIIKSTHDH WKALVTKKTN GKGISCMNTT LSESPFKCDP DAARAIVDAL PPPCESACTV PTDVDKWFHH QKN.		
Formulation	The PPA1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 20% glycerol.		

### Introduction

PPA1 is a member of the PPase family. PPA1 catalyzes the conversion of one molecule of pyrophosphate to two phosphate ions. Many biochemical pathways use the hydrolysis of PPI to two phosphate ions to make the reactions permanently irreversible. A prominent illustration of this phenomenon is the inorganic pyrophosphatase catalyzation in the hydrolysis reaction at the beginning of lipid degradation. Inorganic pyrophosphatase provides the motivation for the activation of fatty acids destined for oxidation by stimulating the rapid hydrolysis of pyrophosphate.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PPA1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 313 amino acids (1-289) and having a molecular mass of 35.2kDa. PPA1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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