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## Recombinant human PRPS1 protein

Catalog Number: ATGP0460

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-318aa

#### UniProt No.

P60891

#### **NCBI Accession No.**

NP 002755

#### **Alternative Names**

Ribose-phosphate pyrophosphokinase 1, ARTS, CMTX5, PPRibP, PRSI, DFN2, DFNX1, Ribose-phosphate pyrophosphokinase 1 EC 2.7.6.1, KIAA0967, Phosphoribosyl pyrophosphate synthetase I, PRS I, PRS-I, Ribose phosphate pyrophosphokinase I,

#### **PRODUCT SPECIFICATION**

## **Molecular Weight**

36.9 kDa (338aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 0.1 M NaCl, and 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

## Tag

His-Tag

## **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **Description**

PRPS1, also known as ribose-phosphate pyrophosphokinase 1, is ubiquitously expressed in human tissues. This enzyme catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is necessary for purine metabolism and nucleotide biosynthesis. Recombinant human PRPS1 protein, fused to Histag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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### **Amino acid Sequence**

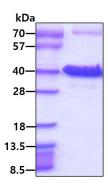
<MGSSHHHHHH SSGLVPRGSH> MPNIKIFSGS SHQDLSQKIA DRLGLELGKV VTKKFSNQET CVEIGESVRG EDVYIVQSGC GEINDNLMEL LIMINACKIA SASRVTAVIP CFPYARQDKK DKSRAPISAK LVANMLSVAG ADHIITMDLH ASQIQGFFDI PVDNLYAEPA VLKWIRENIS EWRNCTIVSP DAGGAKRVTS IADRLNVDFA LIHKERKKAN EVDRMVLVGD VKDRVAILVD DMADTCGTIC HAADKLLSAG ATRVYAILTH GIFSGPAISR INNACFEAVV VTNTIPQEDK MKHCSKIQVI DISMILAEAI RRTHNGESVS YLFSHVPL

#### **General References**

Liu H., et al. (2009) Biochem Biophys Res Commun. 379(4):1120-5. Li S., et al. (2007) Biochem J. 401(1):39-47.

### **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

