

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 His-tag 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 SASRVAVIP CFPYARQDKK DKSRAPISAK LVANMLSVAG ADHIITMDLH
ASQIQGFFDI PVDNLYAEPV VLKWIRENIS EWRNCTIVSP DAGGAKRVTS IADRLNVDFV LIHKERKKAN EVDRMVLVGD
VKDRVAILVD DMADTCGTIC HAADKLLSAG ATRVYAILTH GIFSGPAISR INNACFEAVV VTNTIPQEDK MKHCSKIQVI
DISMILAEAI RRTHNGESVS YLFSHVPL

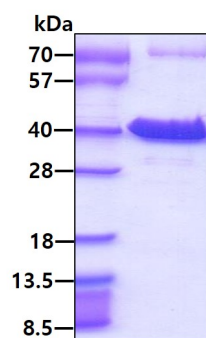
General References

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



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