

Recombinant Human PRPS1, His-tagged

Cat. No. PRPS1-494H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PRPS1 protein fused to His-tag at N-terminus was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 36.9 kDa (338aa).
Species	Human
Source	<i>E.coli</i>
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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 0.1 M NaCl, and 20% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MPNIKIFSGS SHQDLSQKIA DRLGLELGKV VTKKFSNQET CVEIGESVRG EDVYIVQSGC GEINDNLMELLIMINACKIA SASRVTAVIP CFPYARQDKK DKSRAPISAK LVANMLSVAG ADHIITMDLH ASQIQGFFDI PVDNLYAEPV VLKWIRENIS EWRNCTIVSP DAGGAKRVTS IADRLNVDFV LIHKERKKAN EVDRMVLVGD VKDRVAILVD DMADTCGTIC

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HAADKLLSAG ATRVYAILTHGIFSGPAISR INNACFEAVV VTNTIPQEDK
MKHCSKIQVI DISMILAEAI RRTHNGESVS YLFSHVPL.

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.

GENE INFORMATION

Gene Name

[PRPS1 phosphoribosyl pyrophosphate synthetase 1 \[Homo sapiens \]](#)

Synonyms

phosphoribosyl pyrophosphate synthetase 1; ARTS; DFN2; PRSI; CMTX5; DFNX1; PPRibP; KIAA0967; PRPS1; ribose-phosphate pyrophosphokinase 1; PRS-I; dJ1070B1.2 (phosphoribosyl pyrophosphate synthetase 1); PRS-I; Phosphoribosyl pyrophosphate synthetase I; EC 2.7.6.1

Gene ID

[5631](#)

mRNA Refseq

[NM_002764](#)

Protein Refseq

[NP_002755](#)

MIM

[311850](#)

UniProt ID

[P60891](#)

**Chromosome
Location**

Xq21.32-q24

Pathway

Metabolic pathways; Pentose phosphate pathway; Purine metabolism; Metabolism of carbohydrates

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Function

ADP binding; AMP binding; ATP binding; GDP binding; kinase activity; magnesium ion binding; nucleotide binding; protein homodimerization activity; ribose phosphate diphosphokinase activity; sugar binding; transferase activity

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