

PRPS1, human recombinant

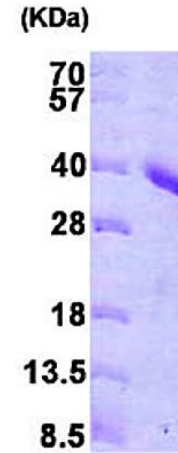
CATALOG #:	7828-100	100 µg
ALTERNATE NAMES:	Ribose-phosphate pyrophosphokinase 1, ARTS, CMTX5, PPRibP, PRSI, DFN2, DFNX1	
SOURCE:	E. Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	36.9 kDa (338 aa, 1-318 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT and 0.1 M NaCl	

STORAGE CONDITIONS: 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.

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.

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 EVDRLMLVGD VKDRVAILVD DMADTCGTIC HAADKLLSAG ATRVYAILTH GIFSGPAISR INNACFEAVV VTNTIPQEDK MKHCSKIQVI DISMILAEAI RRTHNGESVS YLFSHVPL

BIOLOGICAL ACTIVITY: Specific activity: > 1 Units/ml. One unit will catalyze the formation of 1.0 µmole of AMP from ATP and ribose-5-phosphate per minute at pH 7.6 at 37°C.



15% SDS-PAGE (3µg)

Human Recombinant PRPS1

RELATED PRODUCTS:

- Proteins and Enzymes

FOR RESEARCH USE ONLY! Not to be used in humans.