

Recombinant Human PRPS2, His-tagged

Cat. No. PRPS2-181H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Ribose-Phosphate Pyrophosphokinase 2/PRPS2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Pro2-Leu318) of Human PRPS2 fused with a 6His tag at the C-terminus.
Species	Human
Source	HEK293
Description	Ribose-Phosphate Pyrophosphokinase 2 (PRPS2) is a phosphoribosyl pyrophosphate synthetase that belongs to the ribose-phosphate pyrophosphokinase family. PRPS2 is a homodimer. The active form is probably an hexamer composed of three homodimers. PRPS2 catalyzes the synthesis of phosphoribosylpyrophosphate (PRPP) that is essential for nucleotide synthesis. PRPS2 catalyzes the synthesis of 5-phosphoribosyl 1-pyrophosphate from ATP and D-ribose 5-phosphate. In addition, PRPS2 plays a central role in the synthesis of purines and pyrimidines.
AA Sequence	MPNIVLFSGSSHQDLSQRVADRLGLELGKVVTKKFSNQETSVEIGESVRGEDVYIIQS GCGEIND NLMEILLIMINACKIASSSRVTAVIPCFFPYARQDKKDKSRAPISAKLVANML SVAGADHIITMDLH ASQIQGFFDIPVDNLYAEPVQLQWIRENIAEWKNCIIVSPDAGG AKRVTSIADRLNVEFALIHKE RKKANEVDRMVLVGDVKDRVAILVDDMADTCGTICH AADKLLSAGATKVYAILTHGIFSGPAISR INNAAFEAVVVTNTIPQEDKMKHCTKIQVI DISMILAEAIRRTHNGESVSYLFSHVPLVDH HHHHH H

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Endotoxin	Less than 0.1 ng/μg (1 IEU/μg).
Purity	Greater than 95% as determined by reducing SDS-PAGE.
GENE INFORMATION	
Gene Name	PRPS2 phosphoribosyl pyrophosphate synthetase 2 [Homo sapiens]
Official Symbol	PRPS2
Synonyms	PRPS2; phosphoribosyl pyrophosphate synthetase 2; ribose-phosphate pyrophosphokinase 2; PRS II; ribose phosphate diphosphokinase 2; PRS-II; PPRibP synthetase; ribose-phosphate diphosphokinase 2; phosphoribosyl pyrophosphate synthase II; PRSII;
Gene ID	5634
mRNA Refseq	NM_001039091
Protein Refseq	NP_001034180
MIM	311860
UniProt ID	P11908
Chromosome Location	Xpter-q21
Pathway	5-Phosphoribose 1-diphosphate biosynthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem; Nucleotide Metabolism,

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organism-specific biosystem; PRPP biosynthesis I, organism-specific biosystem;
PRPP biosynthesis, ribose 5P =>

Function

ATP binding; kinase activity; magnesium ion binding; nucleotide binding; protein
homodimerization activity; ribose phosphate diphosphokinase activity; transferase
activity;

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