

Recombinant Human PRPS2, His-tagged

Cat. No. PRPS2-90H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PRPS2, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	PRPS2 also known as ribose-phosphate pyrophosphokinase 2 isoform 1. The Protein belongs to the ribose-phosphate pyrophosphokinase family. The Protein catalyzes the synthesis of 5-phosphoribosyl 1-pyrophosphate from ATP and D-ribose 5-phosphate. Alternate splicing results in multiple transcript variants.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT
Molecular Mass	37.4kDa (344aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPNIVLF SGSSHQDLSQ RVADRLGLEL GKVVTKKFSN QETSVEIGES VRGEDVYIIQ SGCGEINDNL MELLIMINAC KIASSSRVTA VIPCFPYARQ DKKDKVGER APISAKLVAN MLSVAGADHI ITMDLHASQI QGFFDIPVDN LYAEP AVLQW IRENIAEWKN CIIVSPDAGG AKRVTSIADR LNVEFALHK ERKKANEVDR MVLVGDVKDR VAILVDDMAD TCGTICHAAD KLLSAGATKV YAILTHGIFS GPAISRINNA AFEAVVVTNT IPQEDKMKHC TKIQVIDISM ILAEAIRRTH NGESVSYLFS HVPL
Purity	>90% by SDS - PAGE

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Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Absorbance at 280nm)
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;

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Metabolism of carbohydrates, organism-specific biosystem; Nucleotide Metabolism, 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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