Recombinant Human PRPS1

Cat. No. PRPS1-30999TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PRPS1, expressed in Saccharomyces cerevisiae. 318 aas. MW 35kDa.
Species	Human
Description	This gene encodes an enzyme that catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is necessary for purine metabolism and nucleotide biosynthesis. Defects in this gene are a cause of phosphoribosylpyrophosphate synthetase superactivity, Charcot-Marie-Tooth disease X-linked recessive type 5 and Arts Syndrome. Two transcript variants encoding different isoforms have been found for this gene.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Store at -20°C. Stable for 12 months at -20°C
Sequences of amino acids	MPNIKIFSGSSHQDLSQKIADRLGLELGKVVTKKFSNQET CVEIGESVRGEDVYIVQS GCGEINDNLMELLIMINACK IASASRVTAVIPCFPYARQDKKDKSRAPISAKLVANML SV AGADHIITMDLHASQIQGFFDIPVDNLYAEPAVLKWIR ENISEWRNCTIVSPDAG GAKRVTSIADRLNVDFALIHKER KKANEVDRMVLVGDVKDRVAILVDDMADTCGTIC

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	HAAD KLLSAGATRVYAILTHGIFSGPAISRINNACFEAVVVTNTIPQEDKMKHCSKIQV IDISMILAEAIRRTHNGESVSYL FSHVPL
Sequence Similarities	Belongs to the ribose-phosphate pyrophosphokinase family.
Full Length	Full L.

GENE INFORMATION

Gene Name	PRPS1 phosphoribosyl pyrophosphate synthetase 1 [Homo sapiens]
Official Symbol	PRPS1
Synonyms	PRPS1; phosphoribosyl pyrophosphate synthetase 1; deafness, X linked 2, perceptive, congenital , DFN2; ribose-phosphate pyrophosphokinase 1; CMTX5; DFNX1; PRS I; ribose phosphate diphosphokinase 1;
Gene ID	5631
mRNA Refseq	NM_001204402
Protein Refseq	NP_001191331
MIM	311850
Uniprot ID	P60891
Chromosome Location	Xq21-q27
Pathway	5-Phosphoribose 1-diphosphate biosynthesis, organism-specific biosystem; Metabolic

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	pathways, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem; Nucleotide Metabolism, organism-specific biosystem; PRPP biosynthesis, ribose 5P =>
Function	ATP binding; kinase activity; magnesium ion binding; nucleotide binding; protein homodimerization activity;

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