

Recombinant Human PRPS1

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

SPECIFICATION

Product Overview	Recombinant full length Human PRPS1, expressed in <i>Saccharomyces cerevisiae</i> . 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: None Constituents: 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 AGADHIITMDLHASQIQGFFDIPVDNLYAEPVCLKWIR ENISEWRNCTIVSPDAG GAKRVTSIADRLNVDFALIHKER KKANEVDRMVLVGDVKDRVAILVDDMADTCGTIC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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