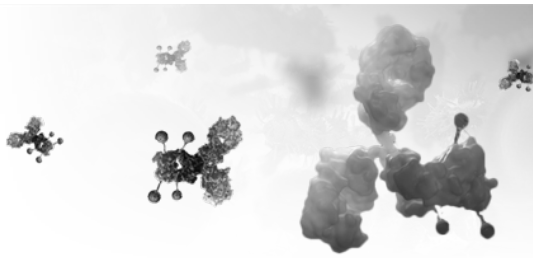

Human PRPS1 blocking peptide (CDBP0499)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	ARTS (N - term) peptide (human)
Antigen 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. [provided by RefSeq, Feb 2011]
Species	Human
Conjugate	Unconjugated
Applications	BL
Concentration	0.2 mg/ml
Size	50 µg
Buffer	PBS with 0.1% BSA 0.02% sodium azide pH7.2
Preservative	0.02% Sodium Azide
Storage	Upon receipt - Keep as concentrated solution. Aliquot and store at -20℃ or below. Avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRPS1 phosphoribosyl pyrophosphate synthetase 1 [Homo sapiens]
Official Symbol	PRPS1

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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; deafness 2, perceptive, congenital; ribose-phosphate diphosphokinase 1; phosphoribosyl pyrophosphate synthase I; deafness, X-linked 2, perceptive, congenital; dJ1070B1.2 (phosphoribosyl pyrophosphate synthetase 1); ARTS; DFN2; PRSI; PRS-I; PPRibP; KIAA0967;
Entrez Gene ID	5631
mRNA Refseq	NM_001204402
Protein Refseq	NP_001191331
UniProt ID	P60891
Chromosome Location	Xq21-q27
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, organism-specific biosystem; PRPP biosynthesis, ribose 5P => PRPP, organism-specific biosystem;
Function	ATP binding; kinase activity; magnesium ion binding; nucleotide binding; protein homodimerization activity; ribose phosphate diphosphokinase activity; ribose phosphate diphosphokinase activity; ribose phosphate diphosphokinase activity; transferase activi

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