

Recombinant Human PRPS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PRPS1-5047H Lot. No. (See product label)

SPECIFICATION

Product Overview	PRPS1 MS Standard C13 and N15-labeled recombinant protein (NP_002755) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	34.8 kDa
AA Sequence	MPNIKIFSGSSHQDLSQKIADRLGLELGKVVTKKFSNQETCVEIGESVRGEDVYIVQSGCGEINDNLMELLIMINACKIASASRVTAVIPCFPYARQDKDKSRAPISAKLVANMLS VAGADHIITMDLHASQIQGFFDIPVDNLYAEPVCLKWIRENISEWRNCTIVSPDAGGA KRVTSIADRLNVDFALIHKERKKANEVDRMVLVGDVKDRVAILVDDMADTCGTICHA ADKLLSAGATRVYAILTHGIFSGPAISRINNACFEAVVVTNTIPQEDKMKHCSKIQVIDI SMILAEAIRRTHNGESVSYLFSHVPLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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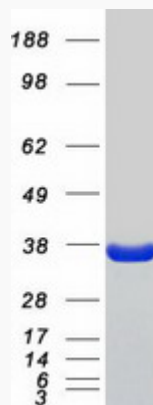
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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	PRPS1 phosphoribosyl pyrophosphate synthetase 1 [Homo sapiens (human)]
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; 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;
Gene ID	5631
mRNA Refseq	NM_002764
Protein Refseq	NP_002755
MIM	311850
UniProt ID	P60891

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SDS-PAGE

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