

Product datasheet for PH300698

PRPS1 (NM_002764) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PRPS1 MS Standard C13 and N15-labeled recombinant protein (NP_002755)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200698
Predicted MW:	34.8 kDa
Protein Sequence:	>RC200698 protein sequence Red=Cloning site Green=Tags(s)

MPNIKIFSGSSHQDL.SQKIADRLGLELGKVVTKKFSNQETCVEIGESVRGEDVYIVQSGCGEINDNLMEL
LIMINACKIASASRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAGADHIIITMDLHASQIQGFFDI
PVDNLYAEPVWKWIRENISEWRNCTIVSPDAGGAKRVTSIADRLNVDFALIHKERKKANEVDRMVLVGD
VKDRVAIVLDDMADTCGTICHAADKLLSAGATRVYAILTHGIFSGPAISRINNACFEAVVVTNTIPQEDK
MKHCSKIQVIDISMILAEAIRRTHNGESVSYLFSHVPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002755</u>
RefSeq Size:	2156
RefSeq ORF:	954
Synonyms:	ARTS; CMTX5; DFN2; DFNX1; PPRibP; PRS-I; PRSI
Locus ID:	5631



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UniProt ID: [P60891](#)

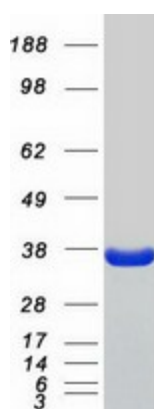
Cytogenetics: Xq22.3

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pentose phosphate pathway, Purine metabolism

Product images:



Coomassie blue staining of purified PRPS1 protein (Cat# [TP300698]). The protein was produced from HEK293T cells transfected with PRPS1 cDNA clone (Cat# [RC200698]) using MegaTran 2.0 (Cat# [TT210002]).