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# Product datasheet for TP300698M

## PRPS1 (NM_002764) Human Recombinant Protein

### Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human phosphoribosyl pyrophosphate synthetase 1 (PRPS1), 100 µg |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >RC200698 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MPNIKIFSGSSHQDLSQKIADRLGLELGKVVTKKFSNQETCVEIGESVRGEDVYIVQSGCGEINDNLMEL<br>LIMINACKIASASRVTAVIPCFPYARQDKKDKSRAPISAKLVANMLSVAGADHIITMDLHASQIQGFFDI<br>PVDNLYAEPAVLKWIRENISEWRNCTIVSPDAGGAKRVTSIADRLNVDFALIHKERKKANEVDRMVLVGD<br>VKDRVAILVDDMADTCGTICHAADKLLSAGATRVYAILTHGIFSGPAISRINNACFEAVVVTNTIPQEDK<br>MKHCSKIQVIDISMILAEAIRRTHNGESVSYLFSHVPL<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 34.7 kDa |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| **Preparation:** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Note:** | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_002755 |
| **Locus ID:** | 5631 |

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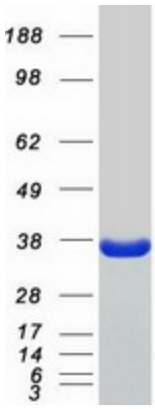
|---|---|
| **UniProt ID:** | P60891 |
| **RefSeq Size:** | 2156 |
| **Cytogenetics:** | Xq22.3 |
| **RefSeq ORF:** | 954 |
| **Synonyms:** | ARTS; CMTX5; DFN2; DFNX1; PPRibP; PRS-I; PRSI |
| **Summary:** | This gene encodes an enzyme that catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, 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]).