

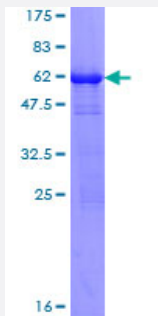
Full-Length

PRPS1 (Human) Recombinant Protein (P01)

Catalog # H00005631-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human PRPS1 full-length ORF (NP_002755.1, 1 a.a. - 318 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MPNIKIFSGSSHQDLSQKIADRLGLELGKVVTKKFSNQETCVEIGESVRGEDVYVQSGCGEINDNL
MELLIMINACKIASASRVTAVIPCFPYARQDKDKSRAPISAKLVANMLSVAGADHIITMDLHASQIQ
GFFDIPVDNLYAEPVCLKWIRENISEWRNCTIVSPDAGGAKRVTSIADRLNVDFAIHKERKKANEV
DRMVLVGDKDRVAILVDDMADTCGTICHAADKLLSAGATRVYAILTHGIFSGPAISRINNACFEAV
VVTNTIPQEDKMKHCISKIQVIDISMILAEAIRRTHNGESVSYLFSHVPL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

61.2

Interspecies Antigen Sequence

Mouse (100); Rat (100)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRPS1

Entrez GeneID[5631](#)**GeneBank Accession#**[NM_002764.2](#)**Protein Accession#**[NP_002755.1](#)**Gene Name**

PRPS1

Gene Alias

ARTS, CMTX5, KIAA0967, PPRibP, PRSI

Gene Description

phosphoribosyl pyrophosphate synthetase 1

Omim ID[300661](#) [301835](#) [311070](#) [311850](#)**Gene Ontology**[Hyperlink](#)**Gene 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. [provided by RefSeq]

Other Designations

OTTHUMP00000023807|dJ1070B1.2 (phosphoribosyl pyrophosphate synthetase 1)

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of plant hormones](#)
- [Metabolic pathways](#)
- [Pentose phosphate pathway](#)
- [Purine metabolism](#)