

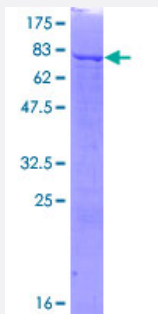
Full-Length

PPAT (Human) Recombinant Protein (P01)

Catalog # H00005471-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PPAT full-length ORF (NP_002694.3, 1 a.a. - 517 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MELEELGIREECGVFGCIASGEWPTQLDVPHVITLGLVGLQHRGQESAGMTSDGSSVPTFKSHK
GMGLVNHVFTEDNLKKLYVSNLGIGHTRYATTGKCELENCQPFVVETLHGKIAVAHNGELVNAARL
RKKLLRHGIGLSTSSDSEMITQLLAYTPPQEQQDDTPDWVARIKNLMKEAPTAYSLLIMHRDVIYAVR
DPYGNRPLCIGRLIPVSDINDKEKKTSETEGWVVSSESCSFLSIGARYYREVLPGEMEISRHNVTQL
DIISRSEGNPVAFCIFEVYFARPDSMFEDQMYYTVRYRCGQQLAIEAPVDADLVSTVPESATPAA
LAYAGKCGLPYVEVLCKNRYVGRFTIQPNMRLRQLGVAKKFGVLSDNFKGKRVLVDDSVRGNTI
SPIIKLLKESGAKEVHIRVASPPPIKYPFCMGINIPTKEELIANKPEFDHLAEYLGANSVVYLSVEGLVS
SVQEGIKFKKQKEKKHDIQENGNGLCEFEKSGHCTACLTGKYPVELEW

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

83.8

Interspecies Antigen Sequence

Mouse (93); Rat (93)

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 — PPAT

Entrez GeneID	5471
GeneBank Accession#	NM_002703.3
Protein Accession#	NP_002694.3
Gene Name	PPAT
Gene Alias	ATASE, GPAT, PRAT
Gene Description	phosphoribosyl pyrophosphate amidotransferase
Omim ID	172450
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the purine/pyrimidine phosphoribosyltransferase family. This protein is a regulatory allosteric enzyme that catalyzes the first step of de novo purine nucleotide biosynthesis. This gene and PAICS/AIRC, a bifunctional enzyme catalyzing steps six and seven in the purine nucleotide biosynthesis pathway, are located in close proximity on chromosome 4. [provided by RefSeq]
Other Designations	amidophosphoribosyltransferase glutamine PRPP amidotransferase glutamine phosphoribosylpyrophosphate amidotransferase

Pathway

- [Alanine](#)
- [Metabolic pathways](#)
- [Purine metabolism](#)