

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

**Cat. No.** PPAT-597H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PPAT MS Standard C13 and N15-labeled recombinant protein (NP_002694) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | The protein encoded by this gene is a member of the purine/pyrimidine phosphoribosyltransferase family. It is a regulatory allosteric enzyme that catalyzes the first step of de novo purine nucleotide biosynthetic pathway. This gene and PAICS/AIRC gene, a bifunctional enzyme catalyzing steps six and seven of this pathway, are located in close proximity on chromosome 4, and divergently transcribed from an intergenic region.    |
| <b>Molecular Mass</b>   | 57.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | MELEELGIREECGVFGCIASGEWPTQLDVPHVITLGLVGLQHRGQESAGIVTSDGSS<br>VPTFKSHKGMGLVNHVFTEDNLKKLYVSNLGIGHTRYATTGKCELENCQPFVVELTH<br>GKIAVAHNGELVNAARLRKKLLRHGIGLSTSSDSEMITQLLAYTPPQEQDDTPDWVA<br>RIKNLMKEAPTAYSLLIMHRDVIYAVRDPYGNRPLCIGRLIPVSDINDKEKKTSETEGW<br>VVSSESCSFLSIGARYYYREVLPGEIVEISRHNVTLDIISRSEGNPVAFCIFEYVYFAR<br>PDSMFEDQMVYTVRYRCGQQLAIEAPVDADLVSTVPESATPAALAYAGKCGLPYVE<br>VLCKNRYVGRFTIQPNMRLRQLGVAKKFGVLSDNFKGKRIVLVDDSIVRGNTISPIIKL |

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LKESGAKEVHIRVASPPIKYPFCMGINIPTKEELIANKPEFDHLAEYLGANSVVYLSVE  
GLVSSVQEGIKFKKQKEKKHDDIMIQENGNGLCEFEKSGHCTACLTGKYPVELEWTRT  
RPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**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** PPAT phosphoribosyl pyrophosphate amidotransferase [ Homo sapiens (human) ]

**Official Symbol** PPAT

**Synonyms** PPAT; phosphoribosyl pyrophosphate amidotransferase; amidophosphoribosyltransferase; GPAT; PRAT; glutamine PRPP amidotransferase; glutamine phosphoribosylpyrophosphate amidotransferase; glutamine phosphoribosylpyrophosphatase amidotransferase; ATASE;

**Gene ID** 5471

**mRNA Refseq** NM\_002703

**Protein Refseq** NP\_002694

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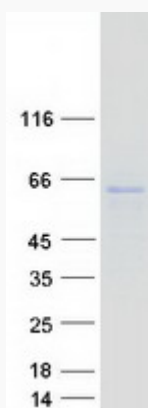
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MIM 172450

UniProt ID Q06203

SDS-PAGE



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