

## Product datasheet for PH301144

### Phosphoribosyl pyrophosphate amidotransferase (PPAT) (NM\_002703) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PPAT MS Standard C13 and N15-labeled recombinant protein (NP_002694)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201144
Predicted MW:	57.4 kDa
Protein Sequence:	>RC201144 protein sequence Red=Cloning site Green=Tags(s)  MELEELGIREECGVFGCIASGEWPTQLDVPVITLGLVGLQHRGQESAGIVTSDGSSVPTFKSHKGMGLV NHVFTEDNLKLLYVSNLIGHTRYATTGKCELENCQPFVVELHGKIAVAHNGELVNAARLRKLLRHGI GLSTSSDSEMITQLLAYTPPQEQQDTPDWVARIKMLMKEAPTAYSLLIMHRDVIYAVRDPYGNRPLCIGR LIPVSDINDKEKKTSETEGWVVSSESCSFLSIGARYYREVLPGEIVEISRHNVTLDIISRSEGNPVAF CFEYVYFARPDMSMFEDQMYYTVRYRCGQQLAIEAPVDADLVSTVPESATPAALAYAGKCGLPYVEVLCKN RYVGRFTIQPNMRLRQLGVAKKFGVLSDFKGRIVLVDDSIVRGNTISPIIKLLKESGAKEVHIRVASP PIKYPCFMGINIPTKEELIANKPEFDHLAEYLGANSVVYLSVEGLVSSVQEGIKFKKQKEKKHDIQEN GNGLECFEKSGHCTAACLTKYYPVELEW  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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<a href="#">NP_002694</a>
RefSeq Size:	3713



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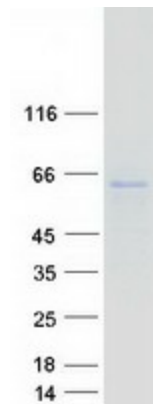
RefSeq ORF: 1551  
Synonyms: ATASE; GPAT; PRAT  
Locus ID: 5471  
UniProt ID: [Q06203](#), [A8K4H7](#), [Q59G63](#)  
Cytogenetics: 4q12

**Summary:** 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. [provided by RefSeq, Mar 2011]

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, Metabolic pathways, Purine metabolism

### Product images:



Coomassie blue staining of purified PPAT protein (Cat# [TP301144]). The protein was produced from HEK293T cells transfected with PPAT cDNA clone (Cat# [RC201144]) using MegaTran 2.0 (Cat# [TT210002]).