

## Product datasheet for PH315225

### PAICS (NM\_006452) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PAICS MS Standard C13 and N15-labeled recombinant protein (NP_006443)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215225
Predicted MW:	47.1 kDa
Protein Sequence:	>RC215225 protein sequence Red=Cloning site Green=Tags(s)

MATAEVLNIGKKLYEGKTKEYVELLDSPGKVLQSKDQITAGNAARKNHLEGKAAISNKITSCIFQLLQE  
AGIKTAFTRKCGETAFIAPQCEMPIEWVCRRIATGSFLKRNPGVKEGYKFYPPKVELFFKDDANNDPQW  
SEEQLIAAKFCFAGLLIGQTEVDIMSHATQAIFEILEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVID  
NDSWRLWPSGDRSQKDKQSYRDLKEVTPEGLQMVKNFEWAERVELLLKSESQCRVVLMGSTSDLGH  
CEKIKKACGNFGIPCELRVTSAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPVMSGNTAYPVISC  
PPLTPDWGVQDVWSSLRLPSGLGCSTVLSPEGSAQFAAQIFGLSNHLVWSKLRASILNTWISLKQADKKI  
RECNL

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<u>NP_006443</u>
RefSeq Size:	3350
RefSeq ORF:	1275
Synonyms:	ADE2; ADE2H1; AIRC; PAIS



[View online »](#)

Locus ID: 10606

UniProt ID: [P22234](#)

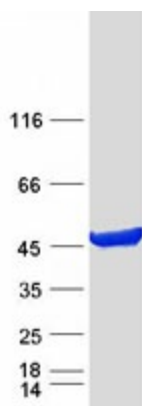
Cytogenetics: 4q12

**Summary:** This gene encodes a bifunctional enzyme containing phosphoribosylaminoimidazole carboxylase activity in its N-terminal region and phosphoribosylaminoimidazole succinocarboxamide synthetase in its C-terminal region. It catalyzes steps 6 and 7 of purine biosynthesis. The gene is closely linked and divergently transcribed with a locus that encodes an enzyme in the same pathway, and transcription of the two genes is coordinately regulated. The human genome contains several pseudogenes of this gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Purine metabolism

### Product images:



Coomassie blue staining of purified PAICS protein (Cat# [TP315225]). The protein was produced from HEK293T cells transfected with PAICS cDNA clone (Cat# [RC215225]) using MegaTran 2.0 (Cat# [TT210002]).