

## Product datasheet for **TP315225M**

### PAICS (NM\_006452) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase (PAICS), transcript variant 2, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC215225 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MATAEVLNIGKKLYEGKTKEYVELLDSPGKVLQSKDQITAGNAARKNHLEGKAAISNKITSCIFQLLQE  
AGIKTAFTRKCGETAFAIAPQCEMPIEWVCRRIATGSFLKRNPVKEGYKFPKVELFFKDDANNDPQW  
SEEQLIAAKFCFAGLLIGQTEVDIMSHATQAIFEILEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVID  
NDSWRLWPSGDRSQKDKQSYRDLKEVTPEGLQMVKNFEWVAERVELLLKSESQCRVWVLMGSTSDLGH  
CEKIKKACGNFGIPCELRVTSAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPVMSGNTAYPVISC  
PPLTPDWGVQDVWSSLRLPSGLGCSTVLSPEGSAQFAAQIFGLSNHLVWSKLRASILNTWISLKQADKKI  
RECNL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 46.9 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

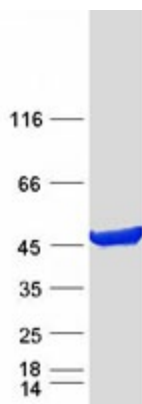
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_006443</a>
<b>Locus ID:</b>	10606
<b>UniProt ID:</b>	<a href="#">P22234</a>
<b>RefSeq Size:</b>	3350
<b>Cytogenetics:</b>	4q12
<b>RefSeq ORF:</b>	1275
<b>Synonyms:</b>	ADE2; ADE2H1; AIRC; PAIS
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]).