

# Recombinant Full Length Human PAICS Protein, C-Flag-tagged

**Cat. No.** PAICS-1378HFL    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human PAICS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	46.9 kDa
<b>AA Sequence</b>	MATAEVLNIGKKLYEGKTKEVYELLDSPGKVLLQSKDQITAGNAARKNHLEGKAAISN KITSCIFQLLQE AGIKTAFTRKCGETAFIAPQCEMPIEWVCRRIATGSFLKRNPVKE GYKFYPPKVELFFKDDANNDPQW SEEQLIAAKFCFAGLLIGQTEVDIMSHATQAI FEI LEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVID NDSWRLWPSGDRSQKDKQSY

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RDLKEVTPEGLQMVKKNFVVAERVELLLKSESQCRVVVLMGSTSDLGH CEKIKKA  
 CGNFGIPCELRVTSAHKGPDETLRIKAEYEGDIPTVFVAVAGRSNGLGPVMSGNTA  
 YPVISC PPLTPDWGVQDVWSSLRLPSGLGCSTVLSPEGSAQFAAQIFGLSNHLVWS  
 KLRASILNTWISLKQADKKI  
 RECNLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade.

**Concentration** >50 ug/mL as determined by microplate BCA method.

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

**Protein Families** Druggable Genome

**Protein Pathways** Metabolic pathways, Purine metabolism

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** PAICS phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthase [ Homo sapiens (human) ]

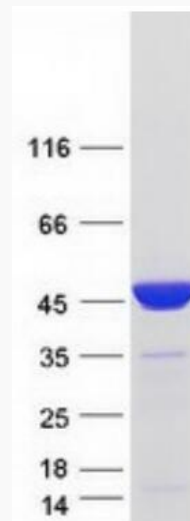
**Official Symbol** PAICS

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<b>Synonyms</b>	ADE2; AIRC; PAIS; ADE2H1; PAICSD
<b>Gene ID</b>	10606
<b>mRNA Refseq</b>	NM_001079524.2
<b>Protein Refseq</b>	NP_001072992.1
<b>MIM</b>	172439
<b>UniProt ID</b>	P22234



Coomassie blue staining of purified PAICS protein.

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