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

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

SPECIFICATION

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

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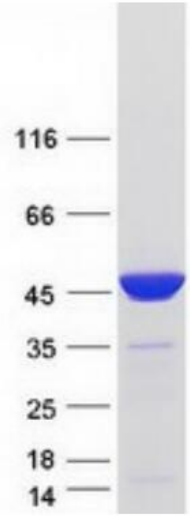
	RDLKEVTPEGLQMVKKNFEWVAERVELLLKSESQCRVVVLMGSTSDLGH CEKIKKA CGNFGIPCELRVTSAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPVMSGNTA YPVISC PPLTPDWGVQDVWSSLRLPSGLGCSTVLSPEGSAQFAAQIFGLSNHLVWS KLRASILNTWISLKQADKKI RECNLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	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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Synonyms	ADE2; AIRC; PAIS; ADE2H1; PAICSD
Gene ID	10606
mRNA Refseq	NM_001079524.2
Protein Refseq	NP_001072992.1
MIM	172439
UniProt ID	P22234



Coomassie blue staining of purified PAICS protein.

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