

Product datasheet for PH301530

PAICS (NM_001079524) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PAICS MS Standard C13 and N15-labeled recombinant protein (NP_001072992)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201530
Predicted MW:	47.1 kDa
Protein Sequence:	>RC201530 protein sequence Red =Cloning site Green =Tags(s) MATAEVLNIGKKLYEGKTKEYVELLDSPGKVLQSKDQITAGNAARKNHLEGKAAISNKITSCIFQLLQE AGIKTAFTRKCGETAFAIAPQCEMPIEWCRRIATGSFLKRNPGVKEGYKFYPPKVELFFKDDANNDPQW SEEQLIAAKFCFAGLLIGQTEVDIMSHATQAIFEILEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVID NDSWRLWPSGDRSQKDKQSYRDLKEVTPEGLQMVKNFEWAERVELLLKSESQCRVVLMGSTSDLGH CEKIKKACGNFGIPCELRVTSAHKGPDETLRIKAEYEGDGIPTVFVAVAGRSNGLGPMMSGNTAYPVISC 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	NP_001072992
RefSeq Size:	3329
RefSeq ORF:	1275
Synonyms:	ADE2; ADE2H1; AIRC; PAIS



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Locus ID: 10606

UniProt ID: [P22234](#)

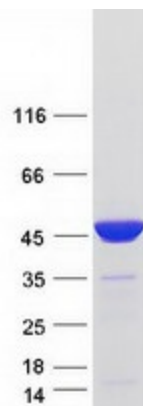
Cytogenetics: 4q12

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# [TP301530]). The protein was produced from HEK293T cells transfected with PAICS cDNA clone (Cat# [RC201530]) using MegaTran 2.0 (Cat# [TT210002]).