PAICS Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PAICS, Lysate
Full Product Name	Human PAICS Protein Lysate
Product Gene Name	PAICS lysate
Product Synonym Names	PAICS; ADE2; ADE2H1; AIRC; PAIS
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	47,958 Da
OMIM	X53793 mRNA
3D Structure	ModBase 3D Structure for P22234
Related Product Information for PAICS lysate	Human PAICS Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of PAICS lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PAICS purchase	MBS8416735 is a lysate targeting PAICS. Also known as Human PAICS Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAICS. It may not necessarily be applicable to this product.

NCBI GI #	5453539
NCBI GeneID	10606
NCBI Accession #	NP_006443
UniProt Primary Accession #	P22234
UniProt Secondary Accession #	Q68CQ5; E9PDH9
UniProt Related Accession #	P22234
GenBank Nucleotide #	NM_006452
NCBI Official Full Name	multifunctional protein ADE2 isoform 2
NCBI Official Synonym Full Names	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase
NCBI Official Symbol	PAICS
NCBI Official Synonym Symbols	ADE2; AIRC; PAIS; ADE2H1
UniProt Protein Name	Multifunctional protein ADE2
UniProt Synonym Protein Names	Phosphoribosylaminoimidazole-succinocarboxamide synthase (EC:6.3.2.6)Alternative name(s):SAICAR synthetase

Protein Family	Multifunctional protein
UniProt Gene Name	PAICS
UniProt Synonym Gene Names	ADE2; AIRC; PAIS; AIRC
NCBI Protein Information	multifunctional protein ADE2
NCBI Summary for PAICS	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]
Research Articles on PAICS	**1.** Observational study and genome-wide association study of gene-disease association. (HuGE Navigator)
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