

## Product datasheet for AR51448PU-S

## OriGene Technologies, Inc.

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## PAICS / ADE2 (1-425, His-tag) Human Protein

**Product data:** 

**Product Type: Recombinant Proteins** 

**Description:** PAICS / ADE2 (1-425, His-tag) human recombinant protein, 0.1 mg

Species: Human E. coli **Expression Host:** 

**Expression cDNA Clone** 

MGSSHHHHHH SSGLVPRGSH MGSMATAEVL NIGKKLYEGK TKEVYELLDS PGKVLLQSKD or AA Sequence:

QITAGNAARK NHLEGKAAIS NKITSCIFQL LQEAGIKTAF TRKCGETAFI APQCEMIPIE WVCRRIATGS

FLKRNPGVKE GYKFYPPKVE LFFKDDANND PQWSEEQLIA AKFCFAGLLI GQTEVDIMSH ATQAIFEILE KSWLPQNCTL VDMKIEFGVD VTTKEIVLAD VIDNDSWRLW PSGDRSQQKD KQSYRDLKEV TPEGLQMVKK NFEWVAERVE LLLKSESQCR VVVLMGSTSD LGHCEKIKKA CGNFGIPCEL RVTSAHKGPD ETLRIKAEYE GDGIPTVFVA VAGRSNGLGP VMSGNTAYPV ISCPPLTPDW GVQDVWSSLR LPSGLGCSTV LSPEGSAQFA AQIFGLSNHL VWSKLRASIL

NTWISLKQAD KKIRECNL

Tag: His-tag Predicted MW: 49.5 kDa Concentration: lot specific

**Purity:** >90% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.1M NaCl, 1 mM DTT

Preparation: Liquid purified protein

**Protein Description:** Recombinant human PAICS protein, fused to His-tag at N-terminus, was expressed in E.coli

and purified by using conventional chromatography.

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid Storage:

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001072992

10606 Locus ID: UniProt ID: P22234





Cytogenetics: 4q12

Synonyms: ADE2; ADE2H1; AIRC; PAIS

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

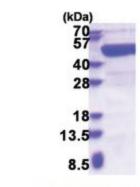
regulated. The human genome contains several pseudogenes of this gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul

2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Purine metabolism

## **Product images:**



15% SDS-PAGE (3ug)