

Recombinant Human PAICS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PAICS-754H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

PAICS MS Standard C13 and N15-labeled recombinant protein (NP_006443) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

47.1 kDa

AA Sequence

MATAEVLNIGKKLYEGKTKEVYELLDSPGKVLLQSKDQITAGNAARKNHLEGKAAISN
KITSCIFQLLQEAGIKTAFTRKCGETAFIAPQCEMPIEWVCRRIATGSFLKRNPVGVE
GYKFYPPKVELFFKDDANNDPQWSEEQLIAAKFCFAGLLIGQTEVDIMSHATQAIFEI
LEKSWLPQNCTLVDMKIEFGVDVTTKEIVLADVIDNDSWRLWPSGDRSQKDKQSY
RDLKEVTPEGLQMVKKNFVVAERVELLLKSESQCRVVVLMGSTSDLGHCEKIKKA

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CGNFGIPCELRVTSAHKGPDETLRIKAEYEGDIPTVFVAVAGRSNGLGPVMSGNTA
 YPVISCPPLTPDWGVQDVWSSLRLPSGLGCSTVLSPEGSAQFAAQIFGLSNHLVWS
 KLRASILNTWISLKQADKKIRECNLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol PAICS

Synonyms PAICS; phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase; PAIS; multifunctional protein ADE2; ADE2H1; AIRC; AIR carboxylase; SAICAR synthetase; multifunctional protein ADE2H1; ADE2; MGC1343; MGC5024; DKFZp781N1372;

Gene ID 10606

mRNA Refseq NM_006452

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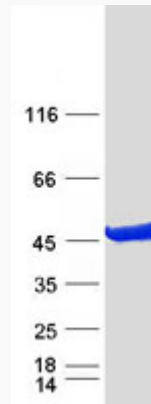
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Protein Refseq NP_006443

MIM 172439

UniProt ID P22234

SDS-PAGE



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