

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

Cat. No. ATIC-4383H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATIC MS Standard C13 and N15-labeled recombinant protein (NP_004035) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a bifunctional protein that catalyzes the last two steps of the de novo purine biosynthetic pathway. The N-terminal domain has phosphoribosylaminoimidazolecarboxamide formyltransferase activity, and the C-terminal domain has IMP cyclohydrolase activity. A mutation in this gene results in AICA-ribosiduria.
Molecular Mass	64.6 kDa
AA Sequence	MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGF PEMPLGGRVKTLPVAVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPG VTVEEAVEQIDIGGVTLRLAAAKNHARVTVVCEPEDYVVVSTEMQSSESKDTSLETR RQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPKLPI TVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKHVSPAGAAVGIPLSEDEAKV CMVYDLYKTLTPISAAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAP GYEEEALTILSKKKNGNYCVLQMDQSYKPDENEVRTLFGLHLSQKRNNGVVDKSLF SNVVTKNKDLPEALRDIVATIAVKYTQSNVVCYAKNGQVIGIGAGQQSRIHCTRLA GDKANYWWLRHHPQVLSMKFKTGKRAEISNAIDQYVTGTIGEDEDLIKWKALFEEV

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PELLTEAEKKEWVEKLTEVSISSDAFFPFRDNVDRAKRSGVAYIAAPSGSAADKVVIE
ACDELGIILAHTNLRLFHHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 ATIC 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase [Homo sapiens (human)]

Official Symbol ATIC

Synonyms ATIC; 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase; bifunctional purine biosynthesis protein PURH; AICARFT; IMPCHASE; phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase; PURH; AICARFT/IMPCHASE; AICAR formyltransferase/IMP cyclohydrolase bifunctional enzyme; 5-aminoimidazole-4-carboxamide-1-beta-D-ribonucleotide transformylase/inosinicase; AICAR; FLJ93545;

Gene ID 471

mRNA Refseq NM_004044

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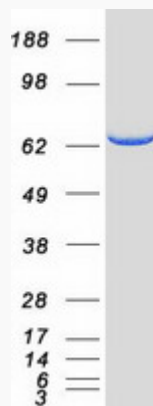
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Protein Refseq NP_004035

MIM 601731

UniProt ID P31939

SDS-PAGE



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