

Recombinant Full Length Human ATIC Protein, GST-tagged

Cat. No. ATIC-1075HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATIC full-length ORF (NP_004035.2, 1 a.a. - 592 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	592 amino acids
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. [provided by RefSeq, Sep 2009]
Molecular Mass	91 kDa
AA Sequence	MAPGQLALFS VSDKTGLVEF ARNLTA LGLN LVASGGTAKA LRDAGLAVRD VSELTGFPEM LGGRVKTLHP AVHAGILARN IPEDNADMAR LDFNLIRVVA CNLYPFVKTV ASPGVTVEEA VEQIDIGGVT LLRAAAKNHA RVTVVCEPED YVVVSTEMQS SESKDTSLT RRQLALKAF HTAQYDEAIS DYFRKQYSKG VSQMPLRYGM NPHQTPAQLY TLQPKLPITV LNGAPGFINL CDALNAWQLV KELKEALGIP AAASFKHVSP AGA AVGIPLS EDEAKVCMVY DLYKTLTPIS AAYARARGAD RMSSFGDFVA LSDVCDVPTA KIISREVSDG IAPGYEEEEA LTILSKKKNG NYCVLQMDQS YKPDENEVRT LFGLHLSQKR NNGVVDKSLF

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SNVVTKNKDL PESALRDLIV ATIAVKYTS NSVCYAKNGQ VIGIGAGQQS
 RIHCTRLAGD KANYWWLRHH PQVLSMKFKT GVKRAEISNA IDQYVTGTIG
 EDEDLIKWKA LFEEVPELLT EAEKKEWVEK LTEVSISSDA FFPFRDNVDR
 AKRSGVAYIA APSGSAADKV VIEACDELGI ILAHTNLRLF HH

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

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

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

Protein Refseq

NP_004035

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MIM	601731
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UniProt ID	P31939
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