

Recombinant Human ATIC protein, GST-tagged

Cat. No. ATIC-952H **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	Wheat Germ
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	MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGF PEMLGGRVKTLHPAVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPG VTVEEAVEQIDIGGVTLRLAAAKNHARVTVCEPEDYVVSTEMQSSESKDTSLETR RQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPKLPI TVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKEHVSPAGAAVGIPLSEDEAKV CMVYDLYKTLTPISAAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAP GYEEEALTILSKKKNGNYCVLQMDQSYKPDENEVRTLFGLHLSQKRNGVVDKSLF SNVVTKNKDLPEALRDIVATIAVKYTQSNVVCYAKNGQVIGIGAGQQSRIHCTRLA GDKANYWWLRHHPQVLSMKFKTGKRAEISNAIDQYVTGTIGEDEDLIKWKALFEEV

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	PELLTEAEKKEWVEKLTEVSISSDAFFPFRDNVDRAKRSGVAYIAAPSGSAADKVVIE ACDELGIILAHTNLRLFHH
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
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

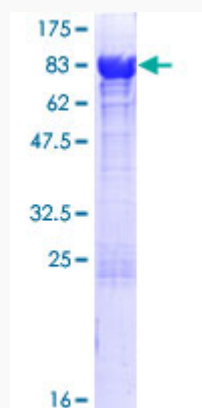
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MIM 601731

UniProt ID P31939



12.5% SDS-PAGE Stained with Coomassie Blue.

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