

Recombinant Full Length Human ATIC Protein, C-Flag-tagged

Cat. No. ATIC-1689HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATIC Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	64.4 kDa
AA Sequence	MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGF PEMLGGRVKTLP AVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPG VTVEEAVEQIDIGGVTLRRAAKNHA RVTVVCEPEDYVVVSTEMQSSSESKDTSLETR RQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGM NPHQTPAQLYTLQPKLP ITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKHVSPAGAAVGIPLS EDEAK VCMVYDLYKLTLPISAAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIA PGYEEEA LTILSKKKNGNYCVLQMDQSYKPDENEVRTLFGLHLSQKRNNGVVDKSL FSNVVTKNKDLPEALRDLIV ATIAVKYTQSNVVCYAKNGQVIGIGAGQQSRIHCTRL AGDKANYWWLRHHPQVLSMKFKTGKRAEISNA IDQYVTGTIGEDEDLIKWKALFE

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EVPELLTEAEKKEWVEKLTEVSISSDAFFPFRDNVDRAKRSGVAYIA
APSGSAADKVVIEACDELGIILAHTNLRRLFHHTRTRPLEQKLISEEDLAANDILDYKDD
DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Stem cell - Pluripotency
Protein Pathways	Metabolic pathways, One carbon pool by folate, Purine metabolism
Full Length	Full L.

GENE INFORMATION

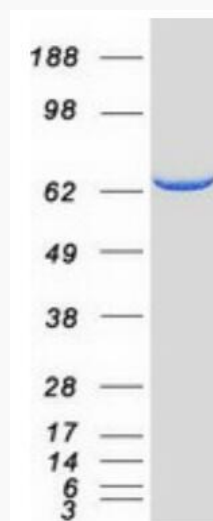
Gene Name	ATIC 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase [Homo sapiens (human)]
Official Symbol	ATIC
Synonyms	PURH; AICAR; AICARFT; IMPCHASE; HEL-S-70p

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Gene ID	471
mRNA Refseq	NM_004044.7
Protein Refseq	NP_004035.2
MIM	601731
UniProt ID	P31939



Coomassie blue staining of purified ATIC protein.