

Product datasheet for **TP303490L**

ATIC (NM_004044) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase (ATIC), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203490 protein sequence Red =Cloning site Green =Tags(s)

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTFPPEMLGGRVKTLP
AVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFKTVASPGVTVEEAVEQIDIGGVTLLRAAKNHA
RVTVVCEPEDYVWVSTEMQSSSKDTSLETRRQLALKAFTHTAQYDEAISDYFRKQYKGVSQMPLRYGM
NPHQTPAQLYTLQPKLPITVLNGAPGFINLDCDALNAWQLVKELKEALGIPAAASFKHVSPAGAAVGIPLS
EDEAKVCMVYDLYKTLTPISAAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVS DGIIAPGYEEEE
LTILSKKKNGNYCVLQMDQSYKPDENEVRTLFGLHLSQKRNNGWVDKSLFSNVVTKNKDLPESALRDLIV
ATIAVKYTQNSVICYAKNGQVIGIGAGQQSRIHCTRLAGDKANYWWLRHHPQVLSMKFKTGVKRAEISNA
IDQYVTGTIGEDEDLIKWKALFEEVPELLTEAEKKEWVEKLTVEVSISSDAFFPFRDNVDRAKRSGVAYIA
APSGSAADKVIEACDELGIIAHTNLRLFFFH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

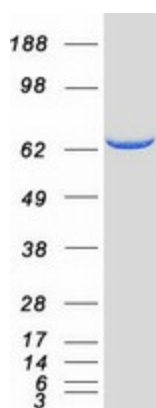
Tag:	C-Myc/DDK
Predicted MW:	64.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_004035</u>
Locus ID:	471
UniProt ID:	<u>P31939, V9HWH7</u>
RefSeq Size:	2094
Cytogenetics:	2q35
RefSeq ORF:	1776
Synonyms:	AICAR; AICARFT; HEL-S-70p; IMPCHASE; PURH
Summary:	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]
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Metabolic pathways, One carbon pool by folate, Purine metabolism

Product images:



Coomassie blue staining of purified ATIC protein (Cat# [TP303490]). The protein was produced from HEK293T cells transfected with ATIC cDNA clone (Cat# [RC203490]) using MegaTran 2.0 (Cat# [TT210002]).