

Product datasheet for **TP303490M**

ATIC (NM_004044) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase (ATIC), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC203490 protein sequence Red =Cloning site Green =Tags(s) |

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTFPPEMLGGRVKTLP
AVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFKTVASPGVTVEEAVEQIDIGGVTLLRAAKNHA
RVTVVCEPEDYVWVSTEMQSSKSDTSLETRRQLALKAFTHTAQYDEAISDYFRKQYKGVSMPLRYGM
NPHQTPAQLYTLQPKLPITVLNGAPGFINLDCDALNAWQLVKELKEALGIPAAASFKHVSPAGA AVGIPLS
EDEAKVCMVYDLYKLTLPISAAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVS DGIIAPGYEEEE
LTILSKKKNGNYCVLQMDQSYKPDENEVRTLFGHLHSQKRNNGWVDKSLFSNVVTKNKDLPESALRDLIV
ATI AVKYTQNSV CYAKNGQVIGIGAGQQSRIHCTRLAGDKANYWWLRHHPQVLSMKFKTGVKRAEISNA
IDQYVTGTIGEDDELKWKALFEEVPELLTEAEKKEWVEKLTVESSDAFFPFRDNVDRAKRSGVAYIA
APSGSAADKVIEACDELGII LAHTNLRLFFFH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

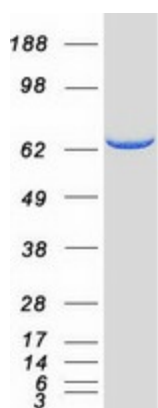
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 64.4 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | 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: | NP_004035 |
| Locus ID: | 471 |
| UniProt ID: | P31939 , V9HWH7 |
| 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]).