

Product datasheet for PH303490

ATIC (NM_004044) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATIC MS Standard C13 and N15-labeled recombinant protein (NP_004035)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203490
Predicted MW:	64.6 kDa
Protein Sequence:	>RC203490 protein sequence Red=Cloning site Green=Tags(s)

MAPGQLALFSVSDKTGLVEFARNLTALGLNLSVSGGTAKALRDAGLAVRDVSELTGFPPEMLGGRVKTLP
AVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPGVTVEEAQEIDIGGVTLRRAAKNHA
RVTVVCEPEDYVVSTEMQSSKDSLETRRQLALKAFTHTAQYDEAISDYFRKQYKGVSMPLRYGM
NPHQTPAQLYTLQPKLPITVLNGAPGFINL CDALNAWQLVKELKEALGIPAAASFKHVSPAGAAVGIPLS
EDEAKVMVYDL YKLTPI SAAYARARGADRMSSF GDFVALSDVCDVPTAKIISREVSDGI IAPGYEEEE
L TILSKKKNNGNYCVLQMDQSYKPDENEVRTLFGLHLSQKRNGVVDKSLFSNVVTKNKDLPESALRDLIV
ATI AVKYTQSNV CYAKNGQVIGIGAGQQSRIHCTRLAGDKANYWLLRHHPQVLSMKFKTGVKRAEISNA
IDQYVTGTIGEDL IKWKALFEEVPELLTEAEKKEWVEKLETVSISSDAFFPFRDNVDRAKRSVAYIA
APSGSAADKVVIEACDELGIILAHNLRLFHH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004035
RefSeq Size:	2094
RefSeq ORF:	1776



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Synonyms: AICAR; AICARFT; HEL-S-70p; IMPCHASE; PURH

Locus ID: 471

UniProt ID: [P31939](#), [V9HWH7](#)

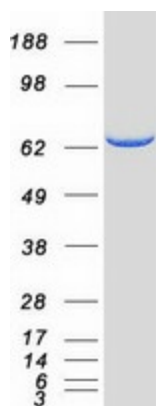
Cytogenetics: 2q35

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]).