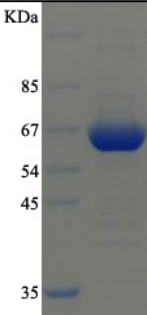


Recombinant Human ATIC Protein Data Sheet

Catalog #	hRP-T0545-EF012
Size	100 µg
Protein Name	Human bifunctional purine biosynthesis protein PURH
Protein Symbol	ATIC
Original Source	<i>Homo sapiens</i>
Expression System	<i>E.coli</i>
GenBank Accession #	D82348.1
Uniprot Accession #	P31939
Description	Bifunctional purine biosynthesis protein PURH is 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.
Application	WB, ELISA, IP, antibody production, protein array
Fusion tag	N-His
Peptide Length	607aa(including fusion tag)
Molecular Weight	66.5kDa(including fusion tag)
pI	6.9
Activity	NA
Storage	Storage buffer: 20mM Tris.Cl, 50mM NaCl, 50% Glycerol, pH8.0. Store at -80°C and avoid repeated freeze-thaw cycles.
	
Reference:	• Role of purine biosynthesis in Bacillus anthracis pathogenesis and virulence • Crystal structure of a bifunctional transformylase and cyclohydrolase enzyme in purine biosynthesis • Structure and functional relationships in human pur H • AICA-ribosiduria: a novel, neurologically devastating inborn error of purine biosynthesis caused by mutation of ATIC • The kinetic mechanism of the human bifunctional enzyme ATIC (5-amino-4-imidazolecarboxamide ribonucleotide transformylase/inosine 5'-monophosphate cyclohydrolase). A surprising lack of substrate channeling

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