

ATPase Inhibitory Factor 1 Recombinant Protein | ATPIF1 recombinant protein

Recombinant Human ATPase Inhibitory Factor 1

CATALOG # AAA38884	HOST E Coli
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PRODUCT SYNONYMS

ATPase Inhibitory Factor 1; Recombinant Human ATPase Inhibitory Factor 1; ATPIF1 Human; ATPase Inhibitory Factor 1 Human Recombinant; ATPase inhibitor mitochondrial; Inhibitor of F(1)F(o)-ATPase; IF(1); IF1; ATPIF1; ATPi; IP; ATPIP; ATPIF1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	ATPIF1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 50% glycerol and 2mM DTT. Sterile Filtered colorless solution.
Sequence	<u>MGSSHHH HHHSSGLVPR GSHMGSHM u>GSDQSENV DRGAGSIREA GGAFGKREQA EEERYFRAQS</u> <u>REQLAALKKH HEEEIVHHKK EIERLQKEIE RHKQKIKMLK HDD.</u>
Sequence Length	106
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for ATPIF1 recombinant protein	Description: ATPIF1 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 106 amino acids (26-106 a.a) and having a molecular mass of 12.2kDa. ATPIF1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: ATPase inhibitory factor 1 (ATPIF1) attaches to the C-terminal region of a beta subunit of the F1-ATPase at low pH values and, through interference of the beta and gamma subunit interaction, ATPIF1 controls the activity of the F1 (the hydrophilic catalytic core), F0 (the membrane embedded protein channel) ATPase. ATPIF1 overexpression in a number of human carcinomas additionally reinforces its participation in oncogenesis and offers insight into the transformed metabolism of cancer cells, including the reprogramming of energy metabolism in relation to glycolysis. Endogenous F1F(o)-ATPase inhibitor curbing ATP depletion when the mitochondrial membrane potential drops below a threshold and the F1F(o)-ATP synthase begins hydrolyzing ATP to pump protons out of the mitochondrial matrix.
Product Categories/Family for ATPIF1 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; ATPase

NCBI AND UNIPROT INFORMATION

NCBI GI #	7705927
NCBI GeneID	93974
NCBI Accession #	NP_057395.1
NCBI GenBank Nucleotide #	NM_016311.4

UniProt Accession #	Q9UII2 ; Q5JXL8 ; Q6IAQ7 ; Q9BSL9
Molecular Weight	6,592 Da
NCBI Official Full Name	ATPase inhibitor, mitochondrial isoform 1
NCBI Official Synonym Full Names	ATPase inhibitory factor 1
NCBI Official Symbol	ATPIF1
NCBI Official Synonym Symbols	IP; ATPi; ATPIP
NCBI Protein Information	ATPase inhibitor, mitochondrial; ATP synthase inhibitor protein; ATPase inhibitor protein; IF(1); IF1; inhibitor of F(1)F(o)-ATPase
UniProt Protein Name	ATPase inhibitor, mitochondrial
UniProt Gene Name	ATPIF1
UniProt Synonym Gene Names	ATPI; IF(1); IF1
UniProt Entry Name	ATIF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/atpif1-recombinant-protein-e-coli/38884>