

Recombinant Human ATPase Inhibitory Factor 1, His-tagged

Cat. No. ATPIF1-2517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATPIF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	26-106aa
Description	ATPIF1 binds to the C-terminal region of a beta subunit of the F1-ATPase at low pH values and, via interference of the beta and gamma subunit interaction, ATPIF1 regulates the activity of the F1, F0 ATPase. The overexpression of ATPIF1 in several human carcinomas further supports its participation in oncogenesis and provides insight into the altered metabolism of cancer cells, which includes the reprogramming of energetic metabolism toward glycolysis.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT.
Molecular Mass	12.2 kDa (106aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMGSDQS ENVDRGAGSI REAGGAFGKR EQAEERYFR AQSREQLAAL KKHHEEEIVH HKKEIERLQK EIERHKQKIK MLKHDD

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Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	ATPIF1 ATPase inhibitory factor 1 [Homo sapiens]
Official Symbol	ATPIF1
Synonyms	ATPIF1; ATPase inhibitory factor 1; ATPase inhibitor, mitochondrial; ATP synthase inhibitor protein; ATPase inhibitor protein; ATP1; ATPIP; IP; MGC1167; MGC8898; IF1; IF(1); inhibitor of F(1)F(o)-ATPase;
Gene ID	93974
mRNA Refseq	NM_016311
Protein Refseq	NP_057395
UniProt ID	Q9UII2
Chromosome Location	1p35.3
Pathway	Electron Transport Chain, organism-specific biosystem;

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Function

ATPase binding; ATPase binding; ATPase inhibitor activity; ATPase inhibitor activity;
angiostatin binding; calmodulin binding; enzyme inhibitor activity; protein
homodimerization activity;

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