

Recombinant human ATPIF1 protein

Catalog Number: ATGP1630

PRODUCT INFORMATION

Expression system

E.coli

Domain

26-106aa

UniProt No.

Q9UII2

NCBI Accession No.

NP_057395.1

Alternative Names

ATPase inhibitor mitochondrial, ATPi, ATPiP, IP, ATPase Inhibitory Factor 1

PRODUCT SPECIFICATION

Molecular Weight

12.2 kDa (106aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

ATPase inhibitory factor 1, also known as 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 (the hydrophilic catalytic core), F0 (the membrane embedded protein channel) 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. Recombinant human ATPIF1 protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSHM>GSDQS ENVDRGAGSI REAGGAFGKR EQAEEERYFR AQSREQLAAL
KKHHEEEIVH HKKEIERLQK EIERHKQKIK MLKHDD

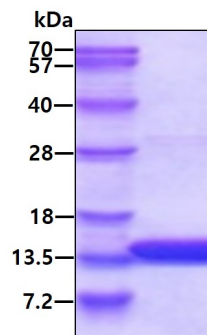
General References

Sanchez Cenizo L., et al. (2010) J Biol Chem. 285: 25308-13.

Cortes Hernandez P., et al. (2005) Biochem Biophys Res Commun. 330: 844-849.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.