

Recombinant human ATP5F1 protein

Catalog Number: ATGP2516

PRODUCT INFORMATION

Expression system

E.coli

Domain

83-256aa

UniProt No.

P24539

NCBI Accession No.

NP_001679

Alternative Names

ATP synthase subunit b, PIG47

PRODUCT SPECIFICATION

Molecular Weight

22.6 kDa (197aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

ATP5F1 is a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b,

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c, d, e, f, g, F6 and 8). Recombinant human ATP5F1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSLILYALS KEIYVISAET FTALSVLGVM VYGIKKGYPF VADFADKLNQ KLAQLEEK
QASIQHIQNA IDTEKSQQAL VQKRHYLFDV QRNNIAMALE VTYRERLYRV YKEVKNRLDY HISVQNMRR KEQEHMINWV
EKHVVSIST QKEKETIAKC IADLKLLAKK AQAQPVM

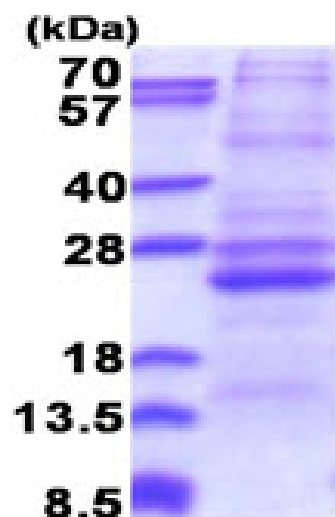
General References

Higuti T., et al. (1991) Biochem. Biophys. Res. Commun. 178:1014-1020

Choudhary C., et al. (2009) Science. 325:834-840

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)