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AR51336PU-S Human ATP5F1 (83-256, His-tag) - Purified

Alternate names: ATP synthase F(0) complex subunit B1, ATP synthase proton-transporting mitochondrial F(0) complex subunit B1, ATP synthase subunit b, mitochondrial ATP synthase subunit b

Quantity: 0.1 mg

Concentration: 0.5 mg/ml (determined by Bradford assay)

Background: 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, c, d, e, f, g, F6 and 8).

Uniprot ID: P24539

NCBI: NP_001679

GeneID: 515

Species: Human

Source: E. coli

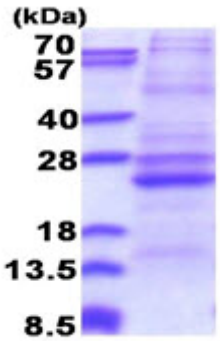
Format:
State: Liquid purified protein
Purity: >80% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description: Recombinant human ATP5F1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSLILYALS KEIYVISAET FTALSVLGVM VYGIKKYGPF VADFADKLNE QKLAQLEEAK QASIQHIQNA IDTEKSQQAL VQKRHYLFDV QRNNIAMALE VTYRERLYRV YKEVKNRLDY HISVQNMMRR KEQEHMINWV EKHVVQSIST QQEKETIAKC IADLKLLAKK AQAQPVM
Molecular weight: 22.6 kDa (197aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:
Higuti T., et al. (1991) Biochem. Biophys. Res. Commun. 178:1014-1020
Choudhary C., et al. (2009) Science. 325:834-840

Pictures:



15% SDS-PAGE (3ug)