Recombinant human ATP5O protein

Catalog Number: ATGP0847

PRODUCT INFORMATION

Expression system
E.coli

Domain
24-213aa

UniProt No.
P48047

NCBI Accession No.
NP_001688

Alternative Names
ATP synthase subunit O, ATPO, OSCP

PRODUCT SPECIFICATION

Molecular Weight
23.1 kDa (211aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl

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
ATP synthase subunit O, also known as ATP5O, localizes to the mitochondria and catalyzes ATP synthesis. The protein is a component of the F-type ATPase found in the mitochondrial matrix. F-type ATPases are composed of a catalytic core and a membrane proton channel. The encoded protein appears to be part of the connector linking these two components and may be involved in transmission of conformational changes or proton conductance. Recombinant human ATP5O protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

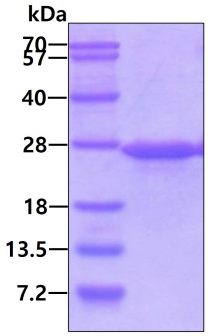
<MGSSHHHHHH SSGLVPRGSH M>FAKLVRPPV QVYGIEGRYA TALYSAASKQ NKLEQVEKEL LRVAQILKEP KVAASVLNPY VKRSIKVKSL NDITAKERFS PLTTNLINLL AENGRLSNTQ GVVSAFSTMM SVHRGEVPCT VTSASPLEEA TLSELKTVLK SFLSQGQVLK LEAKTDPSIL GGMIVRIGEK YVDMSVKTKI QKLGRAMREI V

General References

Hundal T., et al. (1984) J Bioenerq Biomembr. 16:535-550.
Joshi S., et al. (1992) J Biol Chem. 267:12860-12867.

DATA

SDS-PAGE



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