

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.

Recombinant human ATP5O protein

Catalog Number: ATGP0847

Amino acid Sequence

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

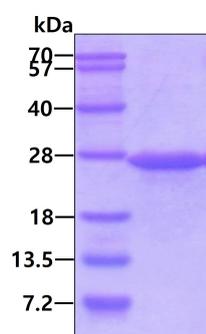
General References

Hundal T., et al. (1984) J Bioenerg 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.