

# Product information



## ATP5O, 24-213 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0847

**Full name:** ATP synthase subunit O

**NCBI Accession No.:** NP\_001688

**Synonyms:** ATPO, OSCP

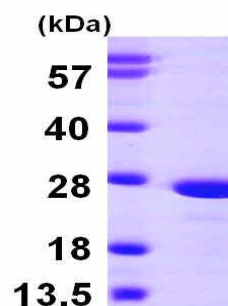
**Description:** ATP synthase subunit O, also known as ATP5O, localizes to the mitochondria and catalyzes ATP synthesis. The protein is a component of the F-type ATPase found in the mitochondrial matrix. F-type ATPases are composed of a catalytic core and a membrane proton channel. The encoded protein 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.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl

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

**Purity:** > 95% by SDS - PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MFAKLVPRPV QVYGI EGRYA TALYSAASKQ NKLEQVEKEL LRVAQILKEP KVAASVLNPNY VKRSIKVKSL  
NDITAKERFS PLTTNLINLL AENGRLSNTQ GVVSAFSTMM SVHRGEVPT 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.

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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