

Recombinant Human ATP5O, 24-213 aa, His-tagged

Cat. No. ATP5O-950H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATP5O protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 23.1 kDa (211aa).
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 0.2M NaCl.
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MFAKLVRPPV QVYGIEGRYA TALYSAASKQ NKLEQVEKEL LRVAQILKEP KVAASVLNPY VKRSIKVKSL NDITAKERFS PLTTNLINLL AENGRLSNTQ GVVSASFSTMM SVHRGEVPCT VTSASPLEEA

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TLSELKTVLK SFLSQGQVLK LEAKTDPSIL GGMIVRIGEK YVDM SVKTKI
QKLGRAMREI V.

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.

Pathways

Alzheimer's disease; Huntington's disease; Metabolic pathways; Oxidative phosphorylation; Parkinson's disease; Respiratory electron transport, ATP synthesis by chemiosmotic coupling, and heat production by uncoupling proteins

GENE INFORMATION

Gene Name

ATP5O ATP synthase, H⁺ transporting, mitochondrial F1 complex, O subunit [Homo sapiens]

Synonyms

ATP synthase, H⁺ transporting, mitochondrial F1 complex, O subunit; ATP5O; OSCP; ATP5O; ATP synthase subunit O, mitochondrial; human ATP synthase OSCP subunit; oligomycin sensitivity conferral protein; oligomycin sensitivity conferring protein; Oligomycin sensitivity conferral protein; human ATP synthase OSCP subunit, oligomycin sensitivity conferring protein9

Gene ID

539

mRNA Refseq

NM_001697

Protein Refseq

NP_001688

MIM

600828

UniProt ID

P48047

Chromosome

21q22.1-q22.2; 21q22.11

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Location**Function**

contributes_to ATPase activity; drug binding; hydrogen ion transporting ATP synthase activity, rotational mechanism; transmembrane transporter activity; transporter activity

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