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*E.coli*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 GVVSAFSTMM SVHRGEVPCT VTSASPLEEA

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	TLSELKTVLK SFLSQGQVLK LEAKTDPSIL GGMIVRIGEK YVDMSVKTKI 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; ATPO; 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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