Recombinant Human ATP5D Protein, His-tagged

Cat. No. ATP5D-270H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5D Protein (Met1-Glu168) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Glu168
Description	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the delta subunit of the catalytic core. Alternatively spliced transcript variants encoding the same isoform have been identified.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 21.2 kDa Accurate Molecular Mass: 23 kDa

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ATP5D ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit [Homo sapiens (human)]
Official Symbol	ATP5D
Synonyms	ATP5D; ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit; ATP synthase subunit delta, mitochondrial; F-ATPase delta subunit; mitochondrial ATP synthase, delta subunit; mitochondrial ATP synthase complex delta-subunit precusor
Gene ID	513
mRNA Refseq	NM_001001975

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Protein Refseq	NP_001001975
MIM	603150
UniProt ID	P30049

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