Recombinant Human ATP5D, His-tagged

Cat. No. ATP5D-27063TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ATP5D with N terminal His tag; 167 amino acids including tag, MWt 17.3 kDa.
Species	Human
Source	E.coli
ProteinLength	146 amino acids
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.
Conjugation	HIS
Molecular Weight	17.300kDa inclusive of tags

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMAEAAAAPAAASGPNQMSFTFASPTQVFFNGANV RQVDVPTLTGAFGILAAHVPTLQVLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSV QLLAEEAVTLDMLDLGAAKANLEKAQAELVGTADEATRAEIQIRIEANEALVKALE
Sequence Similarities	Belongs to the ATPase epsilon chain family.

GENE INFORMATION

Gene Name	ATP5D ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit [Homo sapiens]
Official Symbol	ATP5D
Synonyms	ATP5D; ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit; ATP synthase subunit delta, mitochondrial;
Gene ID	513
mRNA Refseq	NM_001001975

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Protein Refseq	NP_001001975
MIM	603150
Uniprot ID	P30049
Chromosome Location	19p13.3
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; F-type ATPase, eukaryotes, organism-specific biosystem; Formation of ATP by chemiosmotic coupling, organism-specific biosystem;
Function	contributes_to ADP binding; contributes_to ATP binding; contributes_to ATPase activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; protein complex binding;

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