

Recombinant Human ATP5B, His-tagged

Cat. No. ATP5B-26425TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 156-529 of Human ATPB, with N terminal His tag, 374 amino acids, MWt 45kDa, ,
Species	Human
Source	E.coli
ProteinLength	156-529 a.a.
Description	<p>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 beta subunit of the catalytic core.</p>
Conjugation	HIS
Form	Lyophilised:Reconstitution with 143 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GPIKTKQFAPIHAEAPEFMEMSVEQEILVTGIKVVDLLAP YAKGGKIGLFGGAGVGKT VLIMELINNVAKAHGGYSVF AGVGERTREGNDLYHEMIESGVINLKDATSKVALVYG Q MNEPPGARARVALTGLTVAEYFRDQEGQDVLLFIDNIFRF TQAGSEVSALLGRIP SAVGYQPTLATDMGTMQERITTT KKGSITSVQAIYVPADDLTDPAPATTFAHLDATT VLSR AIAELGIYPAVDPLDSTSRIMDPNIVGSEHYDVARGVQKI LQDYKSLQDIILG MDELSEEDKLTVSRARKIQRFLS QPFQVAEVFTGHMGKLVPLKETIKGFQQILAGEY DHLP EQAFYMGPIEEAVAKADKLAEEHSS
Sequence Similarities	Belongs to the ATPase alpha/beta chains family.
GENE INFORMATION	
Gene Name	ATP5B ATP synthase, H ⁺ transporting, mitochondrial F1 complex, beta polypeptide [Homo sapiens]
Official Symbol	ATP5B
Synonyms	ATP5B; ATP synthase, H ⁺ transporting, mitochondrial F1 complex, beta polypeptide; ATPSB; ATP synthase subunit beta, mitochondrial;
Gene ID	506
mRNA Refseq	NM_001686
Protein Refseq	NP_001677
MIM	102910

Uniprot ID	P06576
Chromosome Location	12p13.3
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	ATP binding; contributes_to ATPase activity; MHC class I protein binding; calcium ion binding; eukaryotic cell surface binding;

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