

Recombinant Human ATP5PD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP5PD-6016H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP5H MS Standard C13 and N15-labeled recombinant protein (NP_006347) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15.
Molecular Mass	18.5 kDa
AA Sequence	MAGRKLALKTIDWVAFAEIIPQNQKAIASSLKSWNETLTSRLAALPENPPAIDWAYYK ANVAKAGLVDDFEKKFNALKVPVPEDKYTAQVDAEEKEDVKSCAEWVSLSKARIVE YEKEMEKMKNLIPFDQMTIEDLNEAFPETKLDKKKYPYWPHQPIENLTRTRPLEQKLI

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

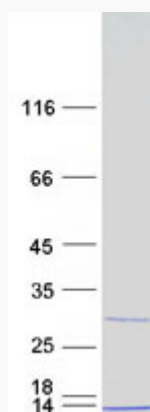
GENE INFORMATION

Gene Name	ATP5PD ATP synthase peripheral stalk subunit d [Homo sapiens (human)]
Official Symbol	ATP5PD
Synonyms	ATP5PD; ATP synthase peripheral stalk subunit d; ATPQ; APT5H; ATP5H; ATP synthase subunit d, mitochondrial; ATP synthase D chain, mitochondrial; ATP synthase, H ⁺ transporting, mitochondrial F ₀ complex, subunit d; ATP synthase, H ⁺ transporting, mitochondrial F ₁ F ₀ , subunit d; ATP synthase, H ⁺ transporting, mitochondrial F _o complex subunit D; ATP synthase, H ⁺ transporting, mitochondrial F _o complex, subunit d; ATPase subunit d; My032 protein; EC 3.6.1.14
Gene ID	10476
mRNA Refseq	NM_006356
Protein Refseq	NP_006347

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MIM 618121**UniProt ID** O75947**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA