

Recombinant Human ATP5MF Protein, GST/His-tagged

Cat. No. ATP5MF-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit F2 (ATP5J2), nuclear gene encoding mitochondrial protein, transcript variant 1, full length, with N-terminal GST and C-terminal HIS tag, expressed in E. coli.
Species	Human
Source	E.coli
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 catalytic portion of mitochondrial ATP synthase consists of five different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and single representatives of the gamma, delta, and epsilon subunits. The proton channel likely has nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the f subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. This gene has multiple pseudogenes. Naturally occurring read-through transcription also exists between this gene and the downstream pentatricopeptide repeat domain 1 (PTCD1) gene.
Molecular Mass	38.7 kDa

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Purity	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	> 50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris,pH8.0,150mM NaCl,10 % glycerol,1 % Sarkosyl.
Full Length	Full L.

GENE INFORMATION

Gene Name	ATP5MF ATP synthase membrane subunit f [Homo sapiens (human)]
Official Symbol	ATP5MF
Synonyms	ATP5MF; ATP synthase membrane subunit f; ATP5J2; ATP5JL; ATP synthase subunit f, mitochondrial; ATP synthase f chain, mitochondrial; ATP synthase, H ⁺ transporting, mitochondrial F ₀ complex, subunit f; ATP synthase, H ⁺ transporting, mitochondrial F _o complex subunit F2; F1F ₀ -type ATPase subunit f; F1F _o -ATP synthase complex F _o membrane domain f subunit; F1F _o -ATPase synthase f subunit; EC 3.6.1.14
Gene ID	9551
mRNA Refseq	NM_004889
Protein Refseq	NP_004880

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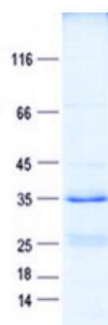
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UniProt ID

P56134

SDS-PAGE

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