

Recombinant Human ATP5A1 protein, His-tagged

Cat. No. ATP5A1-3983H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5A1 protein(202-553 aa), fused to His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	202-553 aa
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole.
AA Sequence	IGRGQRELIIGDRQTGKTSIAIDTIINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVK RLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYFRDNGKHALIYDDLKQA VAYRQMSLLRRPPGREAYPGDVFYLSRLLERAAKMNDAFGGGSALTALPVIETQA GDVSAYIPTNVISITDGQIFLETIFYKIRPAINVGLSVSRVGSAAQTRAMKQVAGTM KLELAQYREVAFAAQFGSDLDAAATQQLSRGVRLTELLKQGQYSPMAIEEQVAVIYA GVRGYLDKLEPSKITKFENAFLSHVVSQHQALLGTIRADGKISEQSDAKLKEIVTNFLA GFEA
Purity	85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Short-term storage: Store at 2-8°C for (1-2 weeks). Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer

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containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 $\mu\text{g}/\mu\text{l}$ in 200 μl sterile water for short-term storage.
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage.

GENE INFORMATION

Gene Name

ATP5A1 ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle [Homo sapiens]

Official Symbol

ATP5A1

Synonyms

ATP5A1; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle , ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non cardiac muscle like 2 , ATP5AL2, ATPM; ATP synthase subunit alpha, mitochondrial; ATP5A; hATP1; OMR; ORM; ATP sythase (F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non-cardiac muscle-like 2; ATPM; MOM2; ATP5AL2;

Gene ID

498

mRNA Refseq

NM_001001935

Protein Refseq

NP_001001935

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MIM	164360
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UniProt ID	P25705
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