

Recombinant Human ATP5F1A Protein (44-553 aa), His-SUMO-tagged

Cat. No. ATP5F1A-345H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5F1A Protein (44-553 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length of Mature Protein.
Species	Human
Source	E.coli
ProteinLength	44-553 aa
Description	Mitochondrial membrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F1 - containing the extramembraneous catalytic core, and F0 - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F1. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites
Form	Tris-based buffer, 50% glycerol

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Molecular Mass	71.2 kDa
AA Sequence	QKTGTAEMSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSS GLKGMSLNLEPDNVGVVFGNDKLIKEGDIVKRTGAIVDVPVGEELLGRVVDALGNAI DGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVIPIGRGQRELIIGDRQTG KTSIAIDTIINQKRFNDGSDEKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSA TASDAAPLQYLAPYSGCSMGEYFRDNGKHALIYDDLKQAVAYRQMSLLRRPPG REAYPGDVFYLSRLLERAAMNDAFGGSLTALPVIETQAGDVSAYIPTNVISITDG QIFLETIFYKGIKIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAFAQ FGSDLAATQQLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITK FENAFLSHVVSQHQALLGTIRADGKISEQSDAKLKEIVTNFLAGFEA
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.
GENE INFORMATION	
Gene Name	ATP5F1A ATP synthase F1 subunit alpha [Homo sapiens (human)]
Official Symbol	ATP5F1A
Synonyms	OMR; ORM; ATPM; MOM2; ATP5A; hATP1; ATP5A1; MC5DN4; ATP5AL2;

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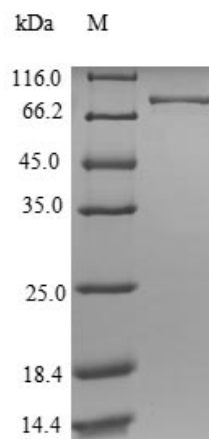
COXPD22; HEL-S-123m;

Gene ID 498

mRNA Refseq NM_001001935

Protein Refseq NP_001001935

UniProt ID P25705



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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