

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

Cat. No. ATP5F1A-2238H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5F1A Protein (44-553 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Tags & Cell Markers. Protein Description: Full Length of Mature Protein.
Species	Human
Source	Yeast
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
Molecular Mass	57.2 kDa

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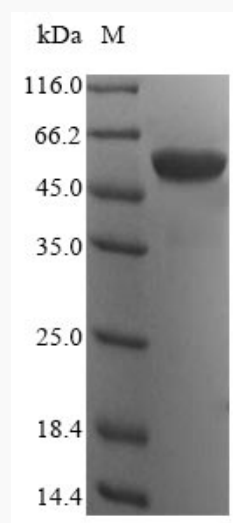
AA Sequence	QKTGTAEMSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSS GLKGMSLNLEPDNVGVVVFVFGNDKLIKEGDIVKRTGAIVDVPVGEELLGRVVDALGNAI DGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQTG KTSIAIDTIINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSA TASDAAPLQYLAPYSGCSMGEYFRDNGKHALIYDDLKQAVAYRQMSLLRRPPG REAYPGDVFYLHSRLLERAAMNDAFGGGSALTALPVIETQAGDVSAIYPTNVISITDG QIFLETIFYKGIKPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAFAAQ FGSDLDAATQQLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITK 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 will be sent along with the products. Please refer to it for detailed information.
GENE INFORMATION	
Gene Name	ATP5F1A ATP synthase F1 subunit alpha [Homo sapiens (human)]
Official Symbol	ATP5F1A
Synonyms	ATP5F1A; OMR; ORM; ATPM; MOM2; ATP5A; hATP1; ATP5A1; MC5DN4; ATP5AL2; COXPD22; HEL-S-123m;

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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.