



# Recombinant Human ATP synthase F(1) complex subunit alpha, mitochondrial (ATP5F1A)

<b>Product Code</b>	CSB-YP002344HU
<b>Relevance</b>	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
<b>Abbreviation</b>	Recombinant Human ATP5F1A protein
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P25705
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	QKTGTAEMSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVE FSSGLKGM SLNLEPDNVGVVVFVGN DKLIKEGDIVKRTG AIVDVPVGEELLGRVV DALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTG IKA VDSLVP IGRGQ RELIIGDRQTGKTSIAIDTIINQKRFNDGSDEKKKLYCIYVAIGQKRSTVAQLVKR LTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYFRDNGKHALIYDDLK QAVAYRQMSLLRRPPGREAYPGDV FYLHSRLLERA AKMND AFGGGS LTALP VIETQAGDVSAYIPTN VISITD GQIFLET ELYK GIRPAINVGLSVSRVGSAAQTR AMKQVAGTMKLELAQYREVA AFAQFGSD LDAATQQLLSRGVRLTELLKQGQY SPMAIEEQVAVIYAGVRGYLDKLEPSKITKFEN AFLSHVVSQHQALLGTIRADG KISEQSDAKLKEIVTNFLAGFEA
<b>Research Area</b>	Tags & Cell Markers
<b>Source</b>	Yeast
<b>Target Names</b>	ATP5A1
<b>Protein Names</b>	Recommended name: ATP synthase subunit alpha, mitochondrial
<b>Expression Region</b>	44-553aa

