



# Recombinant Mouse ATP synthase F(1) complex catalytic subunit beta, mitochondrial (Atp5f1b)

<b>Product Code</b>	CSB-YP002350MO
<b>Relevance</b>	Mitochondrial mbrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the mbrane 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 mbrane 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.
<b>Abbreviation</b>	Recombinant Mouse Atp5f1b 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>	P56480
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	AAQASAAPKAGTATGRIVAVIGAVVDVQFDEGLPPILNALEVQGRDSRLVLEVA QHLGESTVRTIAMDGTEGLVRGQKVLDSGAPIKIPVGPETLGRIMNVIGEPIDE RGPIKTKQFAPIHAEAPEFIEMSVEQEILVTGIKVVDLLAPYAKGGKIGLFGGAG VGKTVLIMELINNVAKAHGGYSVFAGVGERTREGNDLYHEMIESGVINLKDATS KVALVYGQMNEPPGARARVALTGLTVAEYFRDQEGQDVLLFIDNIFRFTQAGS EVSALLGRIPSAVGYPQLATDMGMTMERITTTKKGSITSVQAIYVPADDLTD APATTF AHLDATTVLSRAIAELGIYPAVDPLDSTSRIMDPNIVGNEHYDVARGV QKILQDYKSLQDIIAILGMDELSEEDKLTVSRARKIQRFLSQPFQVAEVFTGHMG KLVPLKETIKGFQQILAGEYDHLPEQAFYMGPIEEAVAKADKLAEEHGS
<b>Research Area</b>	Others
<b>Source</b>	Yeast
<b>Target Names</b>	Atp5f1b
<b>Protein Names</b>	Recommended name: ATP synthase subunit beta, mitochondrial EC= 3.6.3.14
<b>Expression Region</b>	47-529aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

**Tag Info**

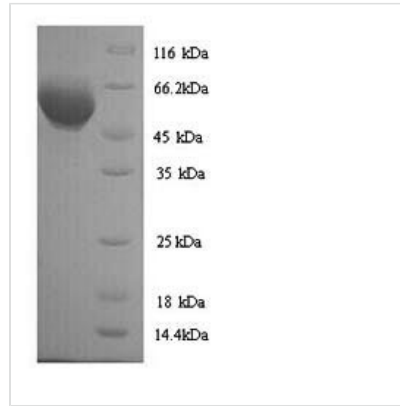
N-terminal 6xHis-tagged

**Mol. Weight**

53.7kDa

**Protein Length**

Full Length of Mature Protein

**Image**

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

**Shelf Life**

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