

Recombinant Mouse Atp5b Protein, MYC/DDK-tagged

Cat. No. Atp5b-669M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit (Atp5b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mitochondrial membrane ATP synthase (F(1)F(0) 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, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.
Molecular Mass	56.3 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Atp5b ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit [Mus musculus (house mouse)]
Official Symbol	Atp5b
Synonyms	Atp5b; ATP synthase, H ⁺ transporting mitochondrial F1 complex, beta subunit; Atp5f1b; ATP synthase subunit beta, mitochondrial; ATP synthase F1 subunit beta; ATP synthase, H ⁺ transporting mitochondrial F1 complex, alpha subunit; mitochondrial ATP synthase, H ⁺ transporting F1 complex beta subunit; EC 7.1.2.2
Gene ID	11947
mRNA Refseq	NM_016774
Protein Refseq	NP_058054
UniProt ID	P56480