Recombinant Mouse Atp5e Protein, Myc/DDK-tagged

Cat. No. Atp5e-1769M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit (Atp5e), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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. Part of the complex F1 domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.
Molecular Mass	5.8 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	handling conditions. Avoid repeated freeze-thaw cycles.
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	Atp5e ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit [Mus musculus (house mouse)]
Official Symbol	Atp5e
Synonyms	ATP5E; ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit; ATP synthase subunit epsilon, mitochondrial; ATPase subunit epsilon; ATP synthase epsilon chain, mitochondrial; ATPE; AV000645; 2410043G19Rik
Gene ID	67126
mRNA Refseq	NM_025983
Protein Refseq	NP_080259
UniProt ID	P56382

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