

Recombinant Mouse Atp5o Protein, Myc/DDK-tagged

Cat. No. Atp5o-1771M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ATP synthase, H ⁺ transporting, mitochondrial F1 complex, O subunit (Atp5o), 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. Part of the complex F(0) domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements.
Molecular Mass	23.4 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	Atp5o ATP synthase, H ⁺ transporting, mitochondrial F1 complex, O subunit [Mus musculus (house mouse)]
Official Symbol	Atp5o
Synonyms	ATP5O; ATP synthase, H ⁺ transporting, mitochondrial F1 complex, O subunit; ATP synthase subunit O, mitochondrial; oligomycin sensitivity conferral protein; DNA segment, Chr 12, Wayne State University 28, expressed; ATPO; OSCP; D12Wsu28e
Gene ID	28080
mRNA Refseq	NM_138597
Protein Refseq	NP_613063
UniProt ID	Q9DB20