Recombinant Full Length Human ATP5F1B Protein, C-Flag-tagged

Cat. No. ATP5F1B-758HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATP5F1B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the beta subunit of the catalytic core.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	51.7 kDa
AA Sequence	MLGFVGRVAAAPASGALRRLTPSASLPPAQLLLRAAPTAVHPVRDYAAQTSPSPKA GAATGRIVAVIGAV VDVQFDEGLPPILNALEVQGRETRLVLEVAQHLGESTVRTIAM DGTEGLVRGQKVLDSGAPIKIPVGPET LGRIMNVIGEPIDERGPIKTKQFAPIHAEAP

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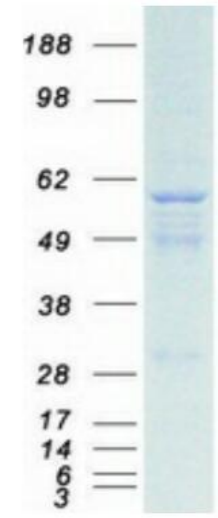
	EFMEMSVEQEILVTGIKVVDLLAPYAKGGKIGLFGGAGV GKTVLIMELINNVAKAHG GYSVFAGVGERTREGNDLYHEMIESGVINLKDATSKVALVYGQMNEPPGARA RVAL TGLTVAEYFRDQEGQDVLLFIDNIFRFTQAGSEVSALLGRIPSAVGYQPTLATDMGT MQERITTTK KGSITSVQAIYVPADDLTDPAPATTFAHLDATTVLSRAIAELGIYPAVDP LDSTSRIMDPNIVGSEHYDV ARGVQKILQDYKSLQDIIAILGMDELSEEDKLTVSRAR KIQRFLSQPFQVAEVFTGHMGKLVPLKETIKG FQQILAGEYDHLPEQAFYMVGPIEEAVAKADKLAEEHSSTRTRPLEQKLISEEDLAAN DILDYKDDDDKV
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.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Full Length	Full L.

GENE INFORMATION

Gene Name	ATP5F1B ATP synthase F1 subunit beta [Homo sapiens (human)]

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Official Symbol	ATP5F1B
Synonyms	ATP5B; ATPMB; ATPSB; HUMOP2; HEL-S-271
Gene ID	506
mRNA Refseq	NM_001686.4
Protein Refseq	NP_001677.2
MIM	102910
UniProt ID	P06576



Coomassie blue staining of purified ATP5F1B protein.

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