

Product datasheet for PH300691

ATP5PF (NM_001685) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP5J MS Standard C13 and N15-labeled recombinant protein (NP_001676)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200691
Predicted MW:	12.59 kDa
Protein Sequence:	>RC200691 representing NM_001685 Red=Cloning site Green=Tags(s) MILQRLFRFSSVIRSAVSVHLRRNIGVTAVAFNKELDPIQKLFVDKIREYKSKRQTSGGPVDASSEYQQE LERELFKLKQMFGNADMNTFPTFKFEDPKFEVIEKPQA TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001676
RefSeq Size:	1167
RefSeq ORF:	324
Synonyms:	ATP5; ATP5A; ATP5J; ATPM; CF6; F6
Locus ID:	522
UniProt ID:	P18859 , Q6IB54 , Q6NZ59
Cytogenetics:	21q21.3



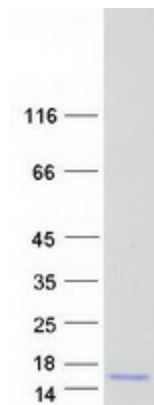
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Summary:

Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. It is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, which comprises the proton channel. The F1 complex consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled in a ratio of 3 alpha, 3 beta, and a single representative of the other 3. The Fo complex has nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the F6 subunit of the Fo complex. The F6 subunit is required for F1 and Fo interactions. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. This gene has 1 or more pseudogenes. [provided by RefSeq, Feb 2016]

Protein Pathways:

Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:

Coomassie blue staining of purified ATP5PF protein (Cat# [TP300691]). The protein was produced from HEK293T cells transfected with ATP5PF cDNA clone (Cat# [RC200691]) using MegaTran 2.0 (Cat# [TT210002]).