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Product datasheet for PH310456

ATP5F1E (NM_006886) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP5E MS Standard C13 and N15-labeled recombinant protein (NP_008817)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210456
Predicted MW:	5.8 kDa
Protein Sequence:	>RC210456 protein sequence Red=Cloning site Green=Tags(s) MVAYWRQAGLSYIRYSQICAKAVRDALKTEFKANAEKTSGSNVKIVKVKKE 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_008817
RefSeq Size:	449
RefSeq ORF:	153
Synonyms:	ATP5E; ATPE; MC5DN3
Locus ID:	514
UniProt ID:	P56381
Cytogenetics:	20q13.32

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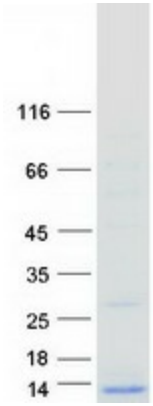
Summary: This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble 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 epsilon subunit of the catalytic core. Two pseudogenes of this gene are located on chromosomes 4 and 13. Read-through transcripts that include exons from this gene are expressed from the upstream gene SLMO2.[provided by RefSeq, Mar 2011]

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:



Coomassie blue staining of purified ATP5F1E protein (Cat# [TP310456]). The protein was produced from HEK293T cells transfected with ATP5F1E cDNA clone (Cat# [RC210456]) using MegaTran 2.0 (Cat# [TT210002]).