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Product datasheet for PH307908

ATP5PD (NM_006356) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ATP5H MS Standard C13 and N15-labeled recombinant protein (NP_006347)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207908
Predicted MW:	18.5 kDa
Protein Sequence:	>RC207908 protein sequence Red=Cloning site Green=Tags(s) MAGRKLALKTIDWVAFAEIIPQNQKAIASSLKSWNETLTSRLAALPENPPAIDWAYYKANVAKAGLVDDF EKKFNALKVPVPEDKYTAQVDAEEKEDVKSCAEWVSLSKARIVEYEKEMEKMKNLIPFDQMTIEDLNEAF PETKLDKKKYPYWPHQPIENL 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_006347
RefSeq Size:	628
RefSeq ORF:	483
Synonyms:	APT5H; ATP5H; ATPQ
Locus ID:	10476
UniProt ID:	O75947, A0PJH2

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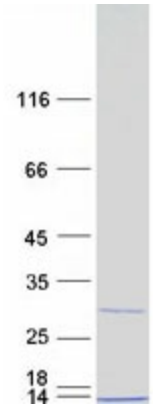
Cytogenetics: 17q25.1

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 seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene encodes the d subunit of the Fo complex. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. In addition, three pseudogenes are located on chromosomes 9, 12 and 15. [provided by RefSeq, Jun 2010]

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

Product images:



Coomassie blue staining of purified ATP5PD protein (Cat# [TP307908]). The protein was produced from HEK293T cells transfected with ATP5PD cDNA clone (Cat# [RC207908]) using MegaTran 2.0 (Cat# [TT210002]).