

## Product datasheet for **AR50961PU-S**

### ATP synthase subunit gamma (26-298, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	ATP synthase subunit gamma (26-298, His-tag) human protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSATLKDIT RRLKSIKNIQ KITKSMKMVA AAKYARAERE LKPARIYGLG SLALYEKADI KGPEDKKKHL LIGVSSDRGL CGAIHSSIAK QMKSEVATLT AAGKEVMLVG IGDKIRGILY RTHSDQFLVA FKEVGRKPPT FGDASVIALE LLNSGYEFDE GSIIFNKFRS VISYKTEEKP IFSLNTVASA DSMSIYDDID ADVLQNYQEY NLANIIYSL KESTTSEQSA RMTAMDNASK NASEMIDKLT LTFNRTRQAV ITKELIEIIS GAAALD
Tag:	His-tag
Predicted MW:	32.6 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001001973</a>
Locus ID:	509
UniProt ID:	<a href="#">P36542</a> , <a href="#">Q8TAS0</a>
Cytogenetics:	10p14
Synonyms:	ATP5C; ATP5C1; ATP5CL1



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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, F<sub>1</sub>, and the membrane-spanning component, F<sub>o</sub>, 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 gamma subunit of the catalytic core. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene also has a pseudogene on chromosome 14. [provided by RefSeq, Jul 2008]

**Protein Pathways:**

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

**Product images:**