

## Product datasheet for **AR50980PU-N**

### Complex IV subunit Vb (32-129, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Complex IV subunit Vb (32-129, His-tag) human protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSASGGGVP TDEEQATGLE REIMLAACKG LDPYNVLAPK GASGTREDPN LVPSISNKRI VGCICEEDNT SVVFWLHKG EAQRCPRCGA HYKLVPQQLA H
Tag:	His-tag
Predicted MW:	13 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1 mM DTT
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_001853</a>
Locus ID:	1329
UniProt ID:	<a href="#">P10606</a> , <a href="#">A0A384NL93</a>
Cytogenetics:	2q11.2
Synonyms:	COXVB



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**Summary:**

Cytochrome C oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit Vb of the human mitochondrial respiratory chain enzyme. [provided by RefSeq, Jul 2008]

**Protein Pathways:**

Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Product images:**