

## Cytochrome c oxidase subunit 5A, mitochondrial (Cox5a) Recombinant Protein | Cox5a recombinant protein

Recombinant Mouse Cytochrome c oxidase subunit 5A, mitochondrial (Cox5a)

CATALOG #  
AAA113718

HOST  
E Coli or Yeast or Baculovirus or Mammalian Cell

### PRODUCT SYNONYMS

Cytochrome c oxidase subunit 5A; mitochondrial (Cox5a); Recombinant Mouse Cytochrome c oxidase subunit 5A; Cox5a recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                    |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                           |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                    |
| Sequence Positions      | 38-146aa; Full Length of Mature Protein                                                                                                                                                             |
| Sequence                | SHGSHETDEE FDARWVTYFN KPDIDAWELR KGMNTLVGYD LVPEPKIIDA ALRACRRLND FASAVRILEV<br>VKDKAGPHKE IYPYVIQELR PTLNELGIST PEELGLDKV                                                                          |
| Species                 | Mouse                                                                                                                                                                                               |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |

### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Related Product Information for Cox5a recombinant protein | 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 of 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 Va of the human mitochondrial respiratory chain enzyme. A pseudogene COX5AP1 has been found in chromosome 14q22. |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | <a href="#">112181182</a>                       |
| NCBI GeneID                      | <a href="#">12858</a>                           |
| NCBI Accession #                 | <a href="#">NP_031773.2</a>                     |
| NCBI GenBank Nucleotide #        | <a href="#">NM_007747.2</a>                     |
| UniProt Accession #              | <a href="#">P12787</a> ; <a href="#">Q9D2W1</a> |
| Molecular Weight                 | 16,101 Da                                       |
| NCBI Official Full Name          | cytochrome c oxidase subunit 5A, mitochondrial  |
| NCBI Official Synonym Full Names | cytochrome c oxidase subunit Va                 |
| NCBI Official Symbol             | Cox5a                                           |

|                               |                                                |
|-------------------------------|------------------------------------------------|
| NCBI Official Synonym Symbols | CcOX; AA959768                                 |
| NCBI Protein Information      | cytochrome c oxidase subunit 5A, mitochondrial |
| UniProt Protein Name          | Cytochrome c oxidase subunit 5A, mitochondrial |
| UniProt Gene Name             | <b>Cox5a</b>                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/cox5a-recombinant-protein-e-coli/113718>