



Recombinant Human Cytochrome c oxidase subunit 4 isoform 1, mitochondrial (COX4I1)

| | |
|--------------------------|---|
| Product Code | CSB-BP005832HU |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | P13073 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | ≥85% (SDS-PAGE) |
| Sequence | AHESVVKS EDFSLPAYMD RRDHPLPEVA HVKHLASQK ALKEKEKASW SSLSMDEKVE LYRIKFESF AEMNRGSNEW KTVVGGAMFF IGFTALVIMW QKHVYVGPLP QSFDKWVAK QTKRMLDMKV NPIQGLASKW DYEKNEWKK |
| Source | Baculovirus |
| Target Names | COX4I1 |
| Protein Names | Recommended name: Cytochrome c oxidase subunit 4 isoform 1, mitochondrial Alternative name(s): Cytochrome c oxidase polypeptide IV Cytochrome c oxidase subunit IV isoform 1 Short name= COX IV-1 |
| Expression Region | 23-169 |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | Tag type will be determined during the manufacturing process. |
| Protein Length | Full Length of Mature Protein |
| Target Details | 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 IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |



Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.