

## Recombinant Human SCO2

Cat. No. Sco2-170H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human Sco2 was cloned from Human cDNA and expressed in *E.coli*. The protein consists of the soluble domain (aa 100-266) of the apo-HSco2SH, which lacks the transmembrane segment (NCBI accession NP\_005129). Four additional aa (GSFT) are present at the N-term end of the protein. MW = 19.5 kDa.

**Species** Human

**Source** E.coli

**Protein Length** 100-266 a.a.

**Description** Protein SCO2 homolog, mitochondrial is a protein that in humans is encoded by the SCO2 gene. Mammalian cytochrome c oxidase (COX) catalyzes the transfer of reducing equivalents from cytochrome c to molecular oxygen and pumps protons across the inner mitochondrial membrane. In yeast, 2 related COX assembly genes, SCO1 and SCO2 (synthesis of cytochrome c oxidase), enable subunits 1 and 2 to be incorporated into the holoprotein. This gene is the human homolog of the yeast SCO2 gene.

**Purity** >95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight of >18kDa.

**Supplied As** 1.0mg at 1.0mg/ml in 50mM KH<sub>2</sub>PO<sub>4</sub>/K<sub>2</sub>HPO<sub>4</sub>, pH7.2, 1mM Dithiothreitol. The concentration is calculated from the absorbance at 280nm ( $\epsilon_{280\text{nm}} = 19035\text{M}^{-1}\text{cm}^{-1}$ ).

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**Characteristics** Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 0,7mM under Inert atmosphere.

**Storage** -20°C. The protein is stable at 4°C for at least 2 weeks and at 25°C for at least several hours. After initial defrost, aliquot protein into individual tubes and refreeze at -20°C. Avoid repeated freeze/defrost cycles.

## GENE INFORMATION

**Gene Name** SCO2 SCO cytochrome oxidase deficient homolog 2 (yeast) [ Homo sapiens ]

**Synonyms** SCO2; SCO cytochrome oxidase deficient homolog 2 (yeast); SCO1L; MGC125823; MGC125825; SCO2; SCO (cytochrome oxidase deficient, yeast) homolog 2;Protein SCO2 homolog, mitochondrial

**Gene ID** 9997

**mRNA Refseq** NM\_005138

**Protein Refseq** NP\_005129

**MIM** 604272

**UniProt ID** O43819

**Chromosome Location** 22q13.33

**Function** copper ion binding;metal ion binding

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