

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 <i>E. coli</i> . 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 ₂ PO ₄ /K ₂ HPO ₄ , 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/thaw 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