

Recombinant Human SCO1

Cat. No. SCO1-168H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Sco1 was cloned from Human cDNA with the mutation P174L and expressed in <i>E.coli</i> . The protein consists of the full length soluble domain of the apo-HSco1SH (aa1 32-301) lacking the transmembrane segment (NCBI accession NP_004580). Four additional aa (GSFT) are present at the N-term end of the protein. MW = 19.7 kDa.
Species	Human
Source	E.coli
ProteinLength	32-301 a.a.
Description	Protein SCO1 homolog, mitochondrial is a protein that in humans is encoded by the SCO1 gene. Mammalian cytochrome 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 oxidase), enable subunits 1 and 2 to be incorporated into the holoprotein. This gene is the human homolog to the yeast SCO1 gene.
Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating around 20KDa.
Supplied AS	Solution of Apo-protein in 50Mm KH ₂ PO ₄ /K ₂ HPO ₄ , pH7.2, 1Mm DTT. The concentration is calculated from the absorbance at 280nm.

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(ε280 = 20525 M-1cm-1).

Characteristics

Under the above described conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 1.4mM underInert atmosphere.

Storage

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

Full Length

Full L.

GENE INFORMATION

Gene Name

SCO1 SCO cytochrome oxidase deficient homolog 1 (yeast) [Homo sapiens]

Synonyms

SCO1; SCO cytochrome oxidase deficient homolog 1 (yeast); SCOD1; SCO (cytochrome oxidase deficient, yeast) homolog 1;Protein SCO1 homolog, mitochondrial;cytochrome oxidase deficient homolog

Gene ID

6341

mRNA Refseq

NM_004589

Protein Refseq

NP_004580

MIM

603644

UniProt ID

O75880

**Chromosome
Location**

17p13.1

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Function

copper ion binding;metal ion binding

**PDBrendering based
on 1wp0**



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