

Recombinant Human SCO2 protein, His-tagged

Cat. No. SCO2-3449H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SCO2(42-266aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	42-266 a.a.
Description	SCO2 protein belongs to the SCO1/2 family of proteins. Both SCO1 and SCO2 proteins are located on the inner membrane of the mitochondria and plays a crucial role in copper insertion or transport to the active site of cytochrome c oxidase (COX). Defects in SCO2 are the cause of fatal infantile cardioencephalomyopathy with cytochrome c oxidase deficiency (FIC). This disease is characterized by hypertrophic cardiomyopathy, lactic acidosis, and gliosis. Heart and skeletal muscle show reductions in cytochrome c oxidase (COX) activity, whereas liver and fibroblasts show mild COX deficiencies.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 2mM DTT, 200mM NaCl
Molecular Mass	27.4kDa (246aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGRARCKADFR GQWVLMYFGF THCPDICPDE LEKLVQVVRQ LEAEPGLPPV QPVFITVDPE RDDVEAMARY VQDFHPRLLG

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LTGSTKQVAQ GPAETGGQG QPQGPGLRTR LLITGLFGAG LGGAWLALRA
 EKERLQQQR TEALRQAAVG QGDFHLLDHRASHSYRVYYN AGPKDEDQDY
 IVDHSIAIYL LNPDGLFTDY YGRSRSAEQI SDSVRRHMAA FRSVLS

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

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

Official Symbol [SCO2](#)

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

Gene ID [9997](#)

mRNA Refseq [NM_005138](#)

Protein Refseq [NP_005129](#)

MIM [604272](#)

UniProt ID [O43819](#)

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Chromosome Location	22q13.33
Pathway	salvage pathways of pyrimidine deoxyribonucleotides, organism-specific biosystem;
Function	copper ion binding; metal ion binding;

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