Product information

SCO2, 42-266aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0867

Full name: Protein SCO2 homolog, mitochondrial

NCBI Accession No.: NP_005129

Synonyms: SCO1L

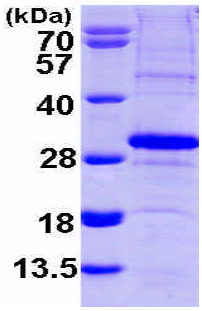
Description: SCO2 protein belongs to the SCO1/2 family of proteins. Both SCO1 and SCO2 proteins are located on the inner membrane of the mitochondria and plays a crucial role in copper insertion or transport to the active site of cytochrome c oxidase (COX). Defects in SCO2 are the cause of fatal infantile 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. Recombinant human SCO2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 30% glycerol, 2mM DTT, 200mM NaCl

Molecular Weight: 27.4kDa (246aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGPAETGGQG QPQGPGLRTR LLITGLFGAG LGGAWLALRA EKERLQQQKR TEALRQAAVG QGDFHLLDHR GRARCKADFR GQWVLMYFGF THCPDICPDE LEKLVQVVRQ LEAEPGLPPV QPVFITVDPE RDDVEAMARY VQDFHPRLLG LTGSTKQVAQ ASHSYRVYYN AGPKDEDQDY IVDHSIAIYL LNPDGLFTDY YGRSRSAEQI SDSVRRHMAA FRSVLS

General references:

Meister G., *et al.* (2001) *EMBO J.* 20:2304-2314

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Product information

Talbot K., *et al.* (1998) *Hum. Mol. Genet.* 7:2149-2156

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

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