9051 Mira Mesa Blvd, #910094
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SCO2 Human

SCO Cytochrome Oxidase Deficient Homolog 2 Human Recombinant
RCP2004

Product Overview

Name	SCO2 Human

Description

SCO Cytochrome Oxidase Deficient Homolog 2 Human Recombinant

Accession (Primary)	O43819

Synonyms

SCO1L, SCO Cytochrome Oxidase Deficient Homolog 2 (yeast), Protein SCO2 Homolog-Mitochondrial, MGC125823, MGC125825.

Introduction

SCO2 protein is a member of the SCO1/2 family. SCO1 and SCO2 proteins are found on the inner membrane of the mitochondria and takes a vital part copper insertion or transport to the active site of cytochrome c oxidase (COX). Flaws in SCO2 are the reason for deadly infantile cardioencephalomyopathy with cytochrome c oxidase deficiency (FIC) which is characterized by hypertrophic cardiomyopathy, lactic acidosis, and gliosis. Heart and skeletal muscle display declines in cytochrome c oxidase (COX) activity, while liver and fibroblasts show mild COX deficiencies.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

The SCO2 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 2mM DTT, 200mM NaCl and 30% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGPAETGGQG QPQGPGLRTR LLITGLFGAG LGGAWLALRA EKERLQQQKR TEALRQAAVG QGDFHLLDHR GRARCKADFR GQWVLMYFGF THCPDICPDE LEKLVQVVRQ LEAEPGLPPV

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QPVFITVDPE RDDVEAMARY VQDFHPRLLG LTGSTKQVAQ ASHSYRVYYN AGPKDEDQDY IVDHSIAIYL LNPDGLFTDY YGRSRSAEQI SDSVRRHMAA FRSVLS

Precautions

SCO2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O43819)