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## Product Data Sheet

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Product Name: SCO1 Human  
 Cat. No.: GP24503  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SCO1 Cytochrome C Oxidase Assembly Protein; SCOD1; SCO(Cytochrome Oxidase Deficient; Yeast) Homolog 1; SCO Cytochrome Oxidase Deficient Homolog 1 (Yeast); SCO Cytochrome Oxidase Deficient Homolog 1; ProteinSCO1 Homolog; Mitochondrial; SCOD1; Protein SCO1 homolog; mitochondrial.		
Amino Acid Sequence	MGKPLLGGPF SLTTHTGERK TDKDYLQWL LIYFGFTHCP DVCPEELEKMIQVVDEIDSI TTLPLDPLF ISIDPERDTK EAIANYVKEF SPKLVGLTGT REEVDQVARA YRVYSPGPKDEDEDYIVDH TIIMYLIGPD GEFLDYFGQN KRKGEIAASI ATHMRPYRKK SLEHHHHHH.		
Formulation	SCO1 protein solution (1mg/ml) containing Phosphatebuffered saline (pH7.4), 10% glycerol and 1mM DTT.		

### Introduction

SCO Cytochrome Oxidase Deficient Homolog 1, also known as SCO1 is a member of the SCO1/2 family. 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. Furthermore, in yeast, two related COX assembly genes, SCO1 & SCO2 which are synthesis of cytochrome oxidase, enable subunits 1 as well as 2 to be incorporated into the holoprotein. This gene is the human homolog to the yeast SCO1 gene. Among the diseases associated with SCO1 are hepatic failure, early-onset, neurologic disorder due to cytochrome c oxidase deficiency and fatal infantile cytochrome c oxidase deficiency.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SCO1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 179 amino acids (132-301 a.a) and having a molecular mass of 20.5kDa.

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