

SCO1 Blocking Peptide (Center) Synthetic peptide Catalog # BP21640c

# Specification

# SCO1 Blocking Peptide (Center) - Product Information

**Primary Accession** 

<u>075880</u>

# SCO1 Blocking Peptide (Center) - Additional Information

Gene ID 6341

Other Names Protein SCO1 homolog, mitochondrial, SCO1, SCOD1

# Target/Specificity

The synthetic peptide sequence is selected from aa 145-158 of HUMAN SCO1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### SCO1 Blocking Peptide (Center) - Protein Information

Name SCO1

Synonyms SCOD1

#### Function

Copper metallochaperone essential for the maturation of cytochrome c oxidase subunit II (MT-CO2/COX2). Not required for the synthesis of MT-CO2/COX2 but plays a crucial role in stabilizing MT- CO2/COX2 during its subsequent maturation. Involved in transporting copper to the Cu(A) site on MT-CO2/COX2 (PubMed:<a href="http://www.uniprot.org/citations/15229189" target="\_blank">15229189</a>, PubMed:<a href="http://www.uniprot.org/citations/15659396" target="\_blank">15659396</a>, PubMed:<a href="http://www.uniprot.org/citations/15659396" target="\_blank">15659396</a>, PubMed:<a href="http://www.uniprot.org/citations/16735468" target="\_blank">16735468</a>, PubMed:<a href="http://www.uniprot.org/citations/17189203" target="\_blank">17189203</a>, PubMed:<a href="http://www.uniprot.org/citations/17189203" target="\_blank">17189203</a>, PubMed:<a href="http://www.uniprot.org/citations/1735468" target="\_blank">17189203</a>, PubMed:<a href="http://www.uniprot.org/citations/17189203" target="\_blank">17189203</a>, PubMed:<a href="http://www.uniprot.org/citations/19336478" target="\_blank">19336478</a>, PubMed:<a href="http://www.uniprot.org/citations/19336

**Cellular Location** 



Mitochondrion. Mitochondrion inner membrane; Single-pass membrane protein

#### Tissue Location

Predominantly expressed in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle, heart, and brain.

### SCO1 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Blocking Peptides</u>

# SCO1 Blocking Peptide (Center) - Images

# SCO1 Blocking Peptide (Center) - Background

Thought to play a role in cellular copper homeostasis, mitochondrial redox signaling or insertion of copper into the active site of COX.

### **SCO1 Blocking Peptide (Center) - References**

Petruzzella V., et al. Genomics 54:494-504(1998). Horvath R., et al. Biochem. Biophys. Res. Commun. 276:530-533(2000). Peng Y., et al. Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases. Ota T., et al.Nat. Genet. 36:40-45(2004). Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.