

**SCO1 Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP21640c****Specification**

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**SCO1 Blocking Peptide (Center) - Product Information**Primary Accession [O75880](#)**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: [15659396](http://www.uniprot.org/citations/15659396), PubMed: [16735468](http://www.uniprot.org/citations/16735468), PubMed: [17189203](http://www.uniprot.org/citations/17189203), PubMed: [19336478](http://www.uniprot.org/citations/19336478), PubMed: [15229189](http://www.uniprot.org/citations/15229189)). Plays an important role in the regulation of copper homeostasis by controlling the abundance and cell membrane localization of copper transporter CTR1 (By similarity).

**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.

- [Blocking Peptides](#)

**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.