



[Go to Product page](#)

Datasheet for ABIN7318963  
**SC01 Protein (GST tag)**

### Overview

Quantity:	50 µg
Target:	SC01
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SC01 protein is labelled with GST tag.

### Product Details

Purpose:	Recombinant Human SC01/SCOD1 Protein (GST Tag)
Sequence:	Gly132-Ser300
Characteristics:	Recombinant Human Protein SC01 Homolog Mitochondrial is produced by our E.coli expression system and the target gene encoding Gly132-Ser300 is expressed with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	SC01
Alternative Name:	SC01/SCOD1 ( <a href="#">SC01 Products</a> )
Background:	Background: Protein SC01 Homolog, Mitochondrial (SC01) is a member of the SC01/2 family. SC01 has a homodimer structure. SC01 is located in mitochondrion and is highly expressed in

## Target Details

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muscle, heart, and brain. It is characterized by high rates of Oxidative Phosphorylation (OxPhos). SCO1 is thought to play an important role in cellular copper homeostasis, mitochondrial redox signaling and insertion of copper into the active site of COX. The defects of SCO1 can result in Mitochondrial Complex IV Deficiency (MT-C4D). A disorder of the mitochondrial respiratory chain has heterogeneous clinical manifestations, ranging from isolated myopathy to severe multisystem disease affecting several tissues and organs.

Synonym: Protein SCO1 Homolog Mitochondrial, SCO1, SCOD1

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Molecular Weight: 20.1 kDa

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UniProt: [O75880](#)

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Pathways: [Sensory Perception of Sound](#), [Transition Metal Ion Homeostasis](#), [Stem Cell Maintenance](#), [Production of Molecular Mediator of Immune Response](#), [Regulation of long-term Neuronal Synaptic Plasticity](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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Buffer: Lyophilized from a 0.2 µm filtered solution of 50 mM PB, 1 mM DTT, pH 7.2.

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Storage: 4 °C, -20 °C, -80 °C

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Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.