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Datasheet for ABIN1097478

## SC01 Protein (AA 132-300) (GST tag)

### Overview

Quantity:	50 µg
Target:	SC01
Protein Characteristics:	AA 132-300
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 Protein SC01 Homolog Mitochondrial SC01/SCOD1 (N-GST)
Sequence:	GSPEFHMGKP LLGGPFSLTT HTGERKTDKD YLGQWLLIYF GFTHCPDVCP EELEKMIQVV DEIDSITTLPLDLTPLFISID PERDTKEAIA NYVKEFSPKL VGLTGTRREEV DQVARAYRVY YSPGPKDEDE DYIVDHTIIM YLIGPDGEFL DYFGQNKRRKG EIAASIATHM RPYRKKS
Characteristics:	Recombinant Human Protein SC01 Homolog, Mitochondrial/SC01 is produced by our E. coli expression system. The target protein is expressed with sequence (Gly132-Ser300) of Human SC01.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	SC01
Alternative Name:	Protein SC01 Homolog Mitochondrial ( <a href="#">SC01 Products</a> )
Background:	<p>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 muscle, heart, and brain. It is characterized by high rates of Oxidative Phosphorylation (OxPhos). SC01 is thought to play a important role in cellular copper homeostasis, mitochondrial redox signaling and insertion of copper into the active site of COX. The defects of SC01 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.</p> <p>Alternative Names: Protein SC01 Homolog Mitochondrial, SC01, SCOD1</p>
Molecular Weight:	20.14 kDa
UniProt:	<a href="#">O75880</a>
Pathways:	<a href="#">Sensory Perception of Sound</a> , <a href="#">Transition Metal Ion Homeostasis</a> , <a href="#">Stem Cell Maintenance</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a>

## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 50 mM PB, 1 mM DTT, pH 7.2.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

## Handling

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Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months

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