



Recombinant Protein Technical Manual
Recombinant Human SCO1/SCOD1 Protein (GST Tag)
RPES3346

Product Data:

Product SKU: RPES3346

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O75880

Protein Information:

Molecular Mass: 20.1 kDa

AP Molecular Mass: 19 kDa

Tag: N-GST

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

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

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

Application:

Synonyms: Protein SCO1 Homolog Mitochondrial; SCO1; SCOD1

Immunogen Information:

Sequence: Gly132-Ser300

Background:

Protein SCO1 Homolog, Mitochondrial (SCO1) is a member of the SCO1/2 family. SCO1 has a homodimer structure. SCO1 is located in mitochondrion and is highly expressed in 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.