Succinyl-Coa Ligase [ADP/GDP-Forming] Subunit Alpha, Mitochondrial (SCSALPHA) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Succinyl-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial (Scsalpha), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Succinyl-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial (Scsalpha), partial
Product Gene Name	Scsalpha recombinant protein
Product Synonym Gene Name	Scsalpha
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	34,389 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q94522
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Scsalpha recombinant protein	MBS1477992 is a recombinant protein targeting Scsalpha. Also known as Recombinant Drosophila melanogaster Succinyl-CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial (Scsalpha), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Scsalpha recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Scsalpha. It may not necessarily be applicable to this product.

NCBI GI #	320545545
NCBI GeneID	38447
NCBI Accession #	NP_001189044.1
UniProt Primary Accession #	Q94522
UniProt Secondary Accession #	Q8SXM7; Q9VZM4
UniProt Related Accession #	Q94522

GenBank Nucleotide #	NM_001202115.2
NCBI Official Full Name	succinyl coenzyme A synthetase alpha subunit, isoform B
NCBI Official Synonym Full Names	Succinyl coenzyme A synthetase alpha subunit
NCBI Official Symbol	Scsalpha
NCBI Official Synonym Symbols	CG1065; DmelCG1065; Scs-alpha; scsalpha
UniProt Protein Name	Succinate--CoA ligase [ADP/GDP-forming] subunit alpha, mitochondrial
UniProt Synonym Protein Names	Succinyl-CoA synthetase subunit alpha
UniProt Gene Name	Scsalpha
UniProt Synonym Gene Names	SCS-alpha
NCBI Protein Information	CG1065 gene product from transcript CG1065-RA
UniProt Comments for Scsalpha	Succinyl-CoA synthetase functions in the citric acid cycle (TCA), coupling the hydrolysis of succinyl-CoA to the synthesis of either ATP or GTP and thus represents the only step of substrate-level phosphorylation in the TCA. The alpha subunit of the enzyme binds the substrates coenzyme A and phosphate, while succinate binding and specificity for either ATP or GTP is provided by different beta subunits.
Research Articles on Scsalpha	**1.** Drosophila SCS deficiency, designated Scsalpha(KO), contained a high level of succinyl-CoA, a substrate for the enzyme, and altered levels of various metabolites in TCA cycle and glycolysis, indicating that the energy metabolism was impaired
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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