Succinyl-Coa Ligase [ADP-Forming] Subunit Alpha (sucD) Staphylothermus Marinus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Succinyl-CoA ligase [ADP-forming] subunit alpha (sucD), Recombinant Protein
Full Product Name	Recombinant Staphylothermus marinus Succinyl-CoA ligase [ADP-forming] subunit alpha (sucD)
Product Gene Name	sucD recombinant protein
Sequence	MILVNRETRV LVQGITGREG QFHTKQMLDY GTKIVAGVTP GKGGTEVLGV PVYDTVKEAV AHHEVDASII FVPAPAAADA ALEAAHAGIP LIVLITEGIP TLDMVRAVEE IKALGSRLIG GNCPGIISAE ETKIGIMPGH VFKRGRVGII SRSGTLTYEA AAALSQAGLG TTTTVGIGGD PVIGTTFKDL LPLFNEDPET EAVVLIGEIG GSDEEEAAAW VKDHMKKPVV GFIGGRSAPK GKRMGHAGAI IMGNVGTPES KLRAFAEAGI PVADTIDEIV ELVKKALG
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	29,822 Da
Sequence Positions	1-288, Full length protein
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 P09143
Species	Thermus thermophilus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for sucD recombinant protein	MBS1260677 is a recombinant protein targeting sucD. Also known as Recombinant Staphylothermus marinus Succinyl-CoA ligase [ADP-forming] subunit alpha (sucD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of sucD 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 sucD. It may not necessarily be applicable to this product.

NCBI GI #	135029
NCBI Accession #	P09143.1
UniProt Primary Accession #	P09143
NCBI Official Full Name	Succinate--CoA ligase
UniProt Protein Name	Succinate--CoA ligase [GDP-forming] subunit alpha

UniProt Synonym Protein Names	Succinyl-CoA synthetase subunit alpha
Protein Family	Succinate--CoA ligase
UniProt Gene Name	sucD
UniProt Synonym Gene Names	SCS-alpha
UniProt Comments for sucD	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 nucleotide specificity is provided by the beta subunit (). Can use either ATP or GTP, but prefers GTP (PubMed:22751660).
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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