Succinyl-Coa Ligase [ADP-Forming] Subunit Beta (sucC) Geobacillus Thermodenitrificans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Succinyl-CoA ligase [ADP-forming] subunit beta (sucC), Recombinant Protein
Full Product Name	Recombinant Geobacillus thermodenitrificans Succinyl-CoA ligase [ADP-forming] subunit beta (sucC)
Product Gene Name	sucC recombinant protein
Product Synonym Gene Name	sucC; GTNG_1061
Product Synonym Names	Succinyl-CoA ligase [ADP-forming] subunit beta; EC=6.2.1.5; Succinyl-CoA synthetase subunit beta; SCS-beta
Sequence	MNIHEYQAKE ILRSYGVSVP NGRVAFTVDE AVEAAKALGT SVCVVKAQIH AGGRGKAGGV KVAKSLEEVR TYASELLGKV LVTHQTGPEG KEVKRLLIEE GCDIQKEYYI GLVVDRATSR VVLMGSEEGG TEIEEVAAKT PEKIFKEYVD PAVGLQAFQA RRLAFNINIP KKLVNQAVKF MMGLYQVFVD KDCSIAEINP LVVTGDGKVM ALDAKLNFDS NALYRHPDIM EYRDLDEEDP KEVEASKYDL NYIALDGNIG CMVNGAGLAM ATMDIIKYYG GEPANFLDVG GGASEEKVTE AFKIILSDPN VKGIFVNIFG GIMKCDVIAS GIVAATKQVG LTLPLVVRLE GTNVELGKKI LQESGLNITA AESMADGAQK IVELVR
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	41,668 Da
Sequence Positions	1-386aa; 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 A4IM83
Species	Geobacillus thermodenitrificans (strain NG80-2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for sucC recombinant protein	MBS1218256 is a recombinant protein targeting sucC. Also known as Recombinant Geobacillus thermodenitrificans Succinyl-CoA ligase [ADP-forming] subunit beta (sucC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of sucC 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 sucC. It may not necessarily be applicable to this product.

NCBI GI #	138894729
NCBI GeneID	4966003

NCBI Accession #	YP_001125182.1
UniProt Primary Accession #	A4IM83
UniProt Related Accession #	A4IM83
GenBank Nucleotide #	NC_009328.1
NCBI Official Full Name	succinyl-CoA synthetase subunit beta
NCBI Official Symbol	sucC
UniProt Protein Name	Succinyl-CoA ligase [ADP-forming] subunit beta
UniProt Synonym Protein Names	Succinyl-CoA synthetase subunit beta
Protein Family	Succinate--CoA ligase
UniProt Gene Name	sucC
UniProt Synonym Gene Names	SCS-beta
UniProt Entry Name	SUCC_GEOTN
NCBI Protein Information	succinyl-CoA synthetase subunit beta
UniProt Comments for sucC	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 beta subunit provides nucleotide specificity of the enzyme and binds the substrate succinate, while the binding sites for coenzyme A and phosphate are found in the alpha subunit.
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