Probable Crotonobetaine/Carnitine-Coa Ligase (caiC) Escherichia Coli O8 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable crotonobetaine/carnitine-CoA ligase (caiC), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O8 Probable crotonobetaine/carnitine-CoA ligase (caiC)
Product Gene Name	caiC recombinant protein
Sequence	MDIIGGQHLR QMWDDLADVY GHKTALICES SGGVVNRYSY LELNQEINRT ANLFYTLGIR KGDKVALHLD NCPEFIFCWF GLAKIGAIMV PINARLLREE SAWILQNSQA CLLVTSAQFY PMYQQIQQED ATQLRHICLT DVALPADDGV SSFTQLKNQQ PATLCYAPPL STDDTAEILF TSGTTSRPKG VVITHYNLRF AGYYSAWQCA LRDDDVYLTV MPAFHIDCQC TAAMAAFSAG ATFVLVEKYS ARAFWGQVQK YRATITECIP MMIRTLMVQP PSANDRQHRL REVMFYLNLS EQEKDAFCER FGVRLLTSYG MTETIVGIIG DRPGDKRRWP SIGRAGFCYE AEIRDDHNRP LPAGEIGEIC IKGVPGKTIF KEYFLNPKAT AKVLEADGWL HTGDTGYCDE EGFFYFVDRR CNMIKRGGEN VSCVELENII ATHPKIQDIV VVGIKDSIRD EAIKAFVVVN EGETLSEEEF FRFCEQNMAK FKVPSYLEIR KDLPRNCSGK IIRKNLK
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	58,517 Da
Sequence Positions	1-517, 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 B7M0D4
Species	Escherichia coli O8 (strain IAI1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for caiC recombinant protein	MBS1233895 is a recombinant protein targeting caiC. Also known as Recombinant Escherichia coli O8 Probable crotonobetaine/carnitine-CoA ligase (caiC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of caiC 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 caiC. It may not necessarily be applicable to this product.

NCBI GI #	485666282
NCBI Accession #	WP_001307563.1
UniProt Primary Accession #	B7M0D4

GenBank Nucleotide #	WP_001307563.1
NCBI Official Full Name	MULTISPECIES: ATP-dependent acyl-CoA ligase
UniProt Protein Name	Crotonobetaine/carnitine--CoA ligase
Protein Family	Probable crotonobetaine/carnitine-CoA ligase
UniProt Gene Name	caiC
UniProt Comments for caiC	Catalyzes the transfer of CoA to carnitine, generating the initial carnitinyl-CoA needed for the CaiB reaction cycle. Also has activity toward crotonobetaine and gamma-butyrobetaine.
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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