Crotonobetainyl-Coa:carnitine Coa-Transferase (caiB) Escherichia Coli O7:k1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Crotonobetainyl-CoA:carnitine CoA-transferase (caiB), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O7:K1 Crotonobetainyl-CoA:carnitine CoA-transferase (caiB)
Product Gene Name	caiB recombinant protein
Sequence	MDHLPMPKFG PLAGLRVVFS GIEIAGPFAG QMFAEWGAEV IWIENVAWAD TIRVQPNYPQ LSRRNLHALS LNIFKDEGRE AFLKLMETTD IFIEASKGPA FARRGITDEV LWQHNPKLVI AHLSGFGQYG TEEYTNLPAY NTIAQAFSGY LIQNGDVDQP MPAFPYTADY FSGLTATTAA LAALHKVRET GKGESIDIAM YEVMLRMGQY FMMDYFNGGE MCPRMTKGKD PYYAGCGLYK CADGYIVMEL VGITQIAECF KDIGLAHLLG TPEIPEGTQL IHRIECPYGP LVEEKLDAWL AAHTIAEVKE RFAELNIACA KVLTVPELES NPQYVARESI TQWQTMDGRT CKGPNIMPKF KNNPGQIWRG MPSHGMDTAA ILKNIGYSEN DIQELVSKGL AKVED
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	45,053 Da
Sequence Positions	1-405, 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 B7NHE2
Species	Escherichia coli O7:K1 (strain IAI39 / ExPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for caiB recombinant protein	MBS1226329 is a recombinant protein targeting caiB. Also known as Recombinant Escherichia coli O7:K1 Crotonobetainyl-CoA:carnitine CoA-transferase (caiB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of caiB 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 caiB. It may not necessarily be applicable to this product.

NCBI GI #	446272087
NCBI Accession #	WP_000349942.1
UniProt Primary Accession #	B7NHE2
GenBank Nucleotide #	WP_000349942.1

NCBI Official Full Name	MULTISPECIES: L-carnitine CoA-transferase
UniProt Protein Name	L-carnitine CoA-transferase
UniProt Synonym Protein Names	Crotonobetainyl-CoA:carnitine CoA-transferase
Protein Family	L-carnitine CoA-transferase
UniProt Gene Name	caiB
UniProt Comments for caiB	Catalyzes the reversible transfer of the CoA moiety from gamma-butyrobetainyl-CoA to L-carnitine to generate L-carnitinyl-CoA and gamma-butyrobetaine. Is also able to catalyze the reversible transfer of the CoA moiety from gamma-butyrobetainyl-CoA or L-carnitinyl-CoA to crotonobetaine to generate crotonobetainyl-CoA.
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