Multifunctional CCA Protein (cca) Yersinia Pestis Bv. Antiqua Recombinant Protein

PRODUCT OVERVIEW

Product Name	Multifunctional CCA protein (cca), Recombinant Protein
Full Product Name	Recombinant Yersinia pestis bv. Antiqua Multifunctional CCA protein (cca)
Product Gene Name	cca recombinant protein
Product Synonym Gene Name	cca
Sequence	MNIYLVGGAV RDSLLNLPVT EQDWVVVGAT PEQLLKLGYQ QVGKDFPVFL HPVSHEEYAL ARTERKSGQG YTGFTCYAAP DVTLEDDLLR RDLTVNAIAR SADGEFIDPY HGKQDLENRV LRHVSDAFGE DPLRVLRVAR FAARFAYLGF TIAPETMSLM SNMAQSGELS ALTPERVWKE TEKALKTQSP HVYFQVLRDC GALAVLFPEI ERLFGVPAPE KWHPEIDTGI HTLMTLAIAA QLSPEVDIRF AALCHDLGKG LTPKEHWPHH HGHGPAGVKL VEQLCQRLRI PNPVRDLAKL VAEYHDLIHT VNKLRPETLL KLFNAIDVWR KPERLEQMIM TSEADARGRT GFENNPYPQG DYLRAAFQIA NGVSIQEVVA SGLQGLAIRD ELQRRRQQAL AEWKQTQETA SI
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	46,289 Da
Sequence Positions	1-412, Full length
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 Q1C370
Species	Yersinia pestis bv. Antiqua (strain Antiqua)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cca recombinant protein	MBS1349775 is a recombinant protein targeting cca. Also known as Recombinant Yersinia pestis bv. Antiqua Multifunctional CCA protein (cca). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cca 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 cca. It may not necessarily be applicable to this product.

NCBI GI #	488140989
NCBI Accession #	WP_002212197.1
UniProt Primary Accession #	Q1C370
GenBank Nucleotide #	WP_002212197.1

NCBI Official Full Name	MULTISPECIES: multifunctional CCA tRNA nucleotidyl transferase/2'3'-cyclic phosphodiesterase/2'nucleotidase/phosphatase
UniProt Protein Name	Multifunctional CCA protein
UniProt Synonym Protein Names	CCA tRNA nucleotidyltransferase
Protein Family	CCA-adding enzyme
UniProt Gene Name	cca
UniProt Comments for cca	Catalyzes the addition and repair of the essential 3'-terminal CCA sequence in tRNAs without using a nucleic acid template. Adds these three nucleotides in the order of C, C, and A to the tRNA nucleotide-73, using CTP and ATP as substrates and producing inorganic pyrophosphate. Also shows phosphatase, 2'-nucleotidase and 2',3'-cyclic phosphodiesterase activities. These phosphohydrolase activities are probably involved in the repair of the tRNA 3'-CCA terminus degraded by intracellular RNases.
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