CCA-Adding Enzyme (cca) Methanosarcina Mazei Recombinant Protein

PRODUCT OVERVIEW

Product Name	CCA-adding enzyme (cca), Recombinant Protein
Full Product Name	Recombinant Methanosarcina mazei CCA-adding enzyme (cca)
Product Gene Name	cca recombinant protein
Product Synonym Gene Name	cca; MM_0469
Product Synonym Names	CCA-adding enzyme; EC=2.7.7.72; CCA tRNA nucleotidyltransferase; tRNA CCA-pyrophosphorylase; tRNA adenylyl-/cytidylyl- transferase; tRNA nucleotidyltransferase; tRNA-NT
Sequence	MDTDTSISED LKLAVLEKIK PTEAERKELM AVQDELAAEV KAAAEKLCVS DIFVKMVGSA ARGTWLSGTH DIDVFISFPE ETSRKDLEIR GMGIAREVAK HAEYAEDRHA EHPYLNIVYK GFDVDLVPCF RVCSACQLKS AVDRTPFHNE FIKSRIKGRE DDVLLMKQFM RGGRVYGSEL KTQGFSGYLT ELLIIYYGSF EKTVKAASSW KPGKKIDIMQ HSELEHSEPL VMVDPTDPKR NVAAALSLDK FCMFIDHCRE FLKSPEIKFF FPESPLPIED KEFLEKLESR KTSQLAIVFE TPDVVDDVLY PQLYKMEQAA SSLLSEYDFS VIKTGVWSGK PQTVVMLELI SGTLPNVKKR TGPPVWVREH AEKFKDKYEG AENVFGGYIE NGKYVYEVHR KYTTAKGLLE EQLLNCSLGK QVYQSVNKGF EVIENAEICR LKDQDFRVFL RKWV
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	51,767 Da
Sequence Positions	1-454aa; 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 Q8PZM3
Species	Methanosarcina mazei (strain BAA-159 / DSM 3647 / Goe1 / Go1 / JCM 11833 / OCM 88) (Methanosarcina frisia)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cca recombinant protein	MBS1380375 is a recombinant protein targeting cca. Also known as Recombinant Methanosarcina mazei CCA-adding enzyme (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 #	21226571
NCBI GeneID	1478811

NCBI Accession #	NP_632493.1
UniProt Primary Accession #	Q8PZM3
UniProt Related Accession #	Q8PZM3
GenBank Nucleotide #	NC_003901.1
NCBI Official Full Name	tRNA CCA-pyrophosphorylase
NCBI Official Symbol	MM_0469
UniProt Protein Name	CCA-adding enzyme
UniProt Synonym Protein Names	CCA tRNA nucleotidyltransferase; tRNA CCA-pyrophosphorylase; tRNA adenylyl-/cytidylyl- transferase; tRNA nucleotidyltransferase; tRNA-NT
Protein Family	CCA-adding enzyme
UniProt Gene Name	cca
UniProt Synonym Gene Names	MM_0469
UniProt Entry Name	CCA_METMA
NCBI Protein Information	tRNA CCA-pyrophosphorylase
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.
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