Probable Trna Threonylcarbamoyladenosine Biosynthesis Protein KAE1 (KAE1) Coccidioides Immitis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable tRNA threonylcarbamoyladenosine biosynthesis protein KAE1 (KAE1), Recombinant Protein
Full Product Name	Recombinant Coccidioides immitis Probable tRNA threonylcarbamoyladenosine biosynthesis protein KAE1 (KAE1)
Product Gene Name	KAE1 recombinant protein
Product Synonym Gene Name	KAE1
Sequence	MIAIGLEGSA NKLGVGIILH PDNGGEPRVL ANIRHTYVSP PGEGFLPKDT AKHHRKWVVS LVKAALKEAE IGVSDVDCIC YTKGPGMGPP LQSVALAART LSLLWGKQLV GVNHCVGHIE MGRYITGAQN PIVLYVSGGN TQVIAYSSQR YRIFGETLDI AVGNCLDRFA RTLHISNDPA PGYNIEQLAK KGKRLVELPY TVKGMDCSFS GILAAIDALA AAYGLSGDQQ AKENIGLTED ALKLKVDSVD KYNNEGGIPT REDLCFSLQE TVFSMLVEIT ERAMAHVGSR EVLIVGGVGC NERLQEMMGI MARDRGGNVF ATDERFCIDN GIMIAQAGIL AYKTGFTTKL EDSTCTQRFR TDEVFVQWRD D
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	40,282 Da
Sequence Positions	1-371, 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 Q1E406
Species	Coccidioides immitis (strain RS) (Valley fever fungus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for KAE1 recombinant protein	MBS1477765 is a recombinant protein targeting KAE1. Also known as Recombinant Coccidioides immitis Probable tRNA threonylcarbamoyladenosine biosynthesis protein KAE1 (KAE1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of KAE1 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 KAE1. It may not necessarily be applicable to this product.

NCBI GI #	119196665
NCBI GeneID	4567634
NCBI Accession #	XP_001248936.1

UniProt Primary Accession #	Q1E406
UniProt Secondary Accession #	J3KMC5
UniProt Related Accession #	Q1E406
GenBank Nucleotide #	XM_001248935.2
NCBI Official Full Name	glycoprotease/Kae1 family metallohydrolase
NCBI Official Symbol	CIMG_02707
UniProt Protein Name	tRNA N6-adenosine threonylcarbamoyltransferase
UniProt Synonym Protein Names	N6-L-threonylcarbamoyladenine synthase; t(6)A synthase; t(6)A37 threonylcarbamoyladenosine biosynthesis protein KAE1
UniProt Gene Name	KAE1
UniProt Synonym Gene Names	t(6)A synthase
NCBI Protein Information	glycoprotease/Kae1 family metallohydrolase
UniProt Comments for KAE1	Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t6A37) in tRNAs that read codons beginning with adenine. The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. KAE1 likely plays a direct catalytic role in this reaction, but requires other protein(s) of the complex to fulfill this activity. The EKC/KEOPS complex also promotes both telomere uncapping and telomere elongation. The complex is required for efficient recruitment of transcriptional coactivators.
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