

tRNA N6-adenosine threonylcarbamoyltransferase Recombinant Protein | KAE1 recombinant protein

Recombinant *Saccharomyces cerevisiae* tRNA N6-adenosine threonylcarbamoyltransferase

CATALOG # AAA115956	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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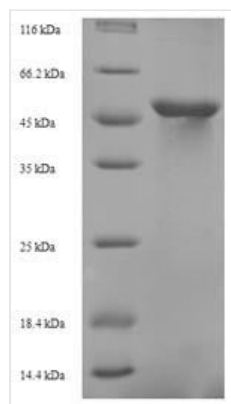
PRODUCT SYNONYMS

tRNA N6-adenosine threonylcarbamoyltransferase; Recombinant *Saccharomyces cerevisiae* tRNA N6-adenosine threonylcarbamoyltransferase; Kinase-associated endopeptidase 1; N6-L-threonylcarbamoyladenine synthase; t(6)A synthase; t(6)A37 threonylcarbamoyladenine biosynthesis protein KAE1; tRNA threonylcarbamoyladenine biosynthesis protein KAE1; KAE1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-386aa; Full Length
Sequence	MVNLNTIPPK NGRDYIALG LEGSANKLGV GIVKHPLLPK HANSDSLSDYDC EAEMLSNIRD TYVTPPGEGF LPRDTARHHR NWCIRLIKQA LAEADIKSPT LDIDVICFTK GPGMGAPLHS VVIAARTCSL LWDVPLVGVN HCIGHIEMGR EITKAQNPVV LYVSGGNTQV IAYSEKRYRI FGETLDIAIG NCLDRFARTL KIPNEPSPGY NIEQLAKKAP HKENLVELPY TVKGMDSLMS GILASIDLLA KDLFKGNKKN KILFDKTTGE QKVTVEDLCY SLQENLFAML VEITERAMAH VNSNQVLIVG GVGCNVRLQE MMAQMCKDRA NGQVHATDNR FCIDNGVMIA QAGLLEYRMG GIVKDFSETV VTQKFRTDEV YAAWRD
Sequence Length	386
Species	<i>Saccharomyces cerevisiae</i> (strain # 204508 / S288c) (Baker's yeast)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for KAE1 recombinant protein	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.
References	"Sequencing and comparison of yeast species to identify genes and regulatory elements." Kellis M., Patterson N., Endrizzi M., Birren B.W., Lander E.S. Nature 423:241-254(2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	37362674
NCBI GeneID	853910
NCBI Accession #	NP_012964.2
NCBI GenBank Nucleotide #	NM_001179828.1
UniProt Accession #	P36132; D6VXA1
Molecular Weight	44.7 kDa
NCBI Official Full Name	tRNA N6-adenosine threonylcarbamoyltransferase
NCBI Official Symbol	KAE1
NCBI Protein Information	tRNA N6-adenosine threonylcarbamoyltransferase
UniProt Protein Name	tRNA N6-adenosine threonylcarbamoyltransferase
UniProt Gene Name	KAE1
UniProt Synonym Gene Names	t(6)A synthase
UniProt Entry Name	KAE1_YEAST

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/kae1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115956>