



Recombinant *Saccharomyces cerevisiae* tRNA N6-adenosine threonylcarbamoyltransferase (KAE1)

Product Code	CSB-YP330543SVG
Relevance	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.
Abbreviation	Recombinant <i>Saccharomyces cerevisiae</i> KAE1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P36132
Alias	Kinase-associated endopeptidase 1 N6-L-threonylcarbamoyladenine synthase Short name: t(6)A synthase t(6)A37 threonylcarbamoyladenine biosynthesis protein KAE1 tRNA threonylcarbamoyladenine biosynthesis protein KAE1
Product Type	Recombinant Protein
Immunogen Species	<i>Saccharomyces cerevisiae</i> (strain ATCC 204508 / S288c) (Baker's yeast)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MVNLNTIPPKNRGRDYIALGLEGSANKLGVGIVKHPLLPKHANS DLSYDCEAEM LSNIRDYVTPPGEGFLPRDTARHHRNWCIRLIKQALAEADIKSPTLDIDVICFTK GPGMGAPLHSVIAARTCSLLWDVPLVGVNHCIGHIEMGREITKAQNPVVLYV SGGNTQVIAYSEKRYRIFGETLDIAIGNCLDRFARTLKIPNEPSPGYNIEQLAKK APHKENLVLPYTVKGM DLSMSGILASIDLLAKDLFKGNKKNKILFDKTTGEQK VTVEDLCYSLQENLFAMLVEITERAMAHVNSNQVLIVGGVGCNVRLQEMMAQ MCKDRANGQVHATDNRFCIDNGVMIAQAGLLEYRMGGIVKDFSETVVTQKFR TDEVYAAWRD
Research Area	Others
Source	Yeast
Target Names	KAE1
Protein Names	Recommended name: Probable tRNA threonylcarbamoyladenine biosynthesis protein KAE1 Alternative name(s): t(6)A37 threonylcarbamoyladenine biosynthesis protein KAE1
Expression Region	1-386aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at



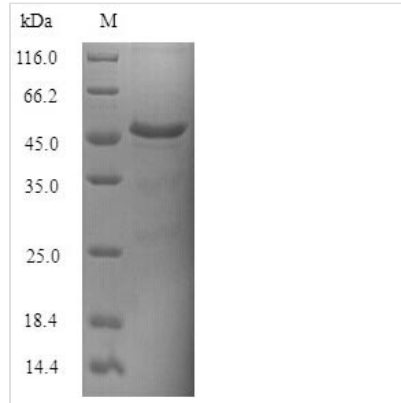
4°C for up to one week.

Tag Info N-terminal 6xHis-tagged

Mol. Weight 44.7kDa

Protein Length Full Length

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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