



# Recombinant *Saccharomyces cerevisiae* Probable tRNA threonylcarbamoyladenosine biosynthesis protein KAE1 (KAE1)

<b>Product Code</b>	CSB-EP330543SVG
<b>Relevance</b>	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.
<b>Abbreviation</b>	Recombinant <i>Saccharomyces cerevisiae</i> KAE1 protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P36132
<b>Alias</b>	Kinase-associated endopeptidase 1 N6-L-threonylcarbamoyladenine synthase Short name: t(6)A synthase t(6)A37 threonylcarbamoyladenosine biosynthesis protein KAE1 tRNA threonylcarbamoyladenosine biosynthesis protein KAE1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	<i>Saccharomyces cerevisiae</i> (strain ATCC 204508 / S288c) (Baker's yeast)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	MVNLNTIPPKNGRDYIYIALGLEGSANKLGVGIVKHPLLPKHANS DLSYDCEAEM LSNIRDYVTPPGEGFLPRDTRHHRNWCIRLIKQALAEADIKSPTLDIDVICFTK GPGMGAPLHSVVAARTCSLLWDVPLVGVNHCIGHIEMGREITKAQNPVVLVY SGGNTQVIAYSEKRYRIFGETLDIAIGNCLDRFARTLKIPNEPSPGYNIEQLAKK APHKENLVELPYTVKGM DLSMSGILASIDLLAKDLFKGNKKNKILFDKTTGEQK VTVEDLCYSLQENLFAMLVEITERAMAHVNSNQVLIVGGVGCNVRLQEMMAQ MCKDRANGQVHATDNRFCIDNGVMIAQAGLLEYRMGGIVKDFSETVVTQKFR TDEVYAAWRD
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	KAE1
<b>Expression Region</b>	1-386aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

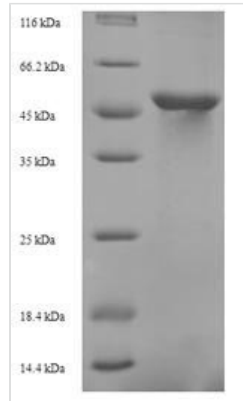


**Tag Info** N-terminal 6xHis-tagged

**Mol. Weight** 46.7kDa

**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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