

Recombinant *Saccharomyces Cerevisiae* KAE1 Protein (1-386 aa), His-tagged

Cat. No. KAE1-1750S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Saccharomyces Cerevisiae</i> (strain ATCC 204508/S288c) (Baker's yeast) KAE1 Protein (1-386 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	<i>S.cerevisiae</i>
Source	Yeast
ProteinLength	1-386 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	44.7 kDa
AA Sequence	MVNLNTIPPKNGRDYYIALGLEGSANKLGVGIVKHPLLPKHANS DLSYDCEAEMLSN I

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RDTYVTPPGEGFLPRDTARHHRNWCIRLIKQALAEADIKSPTLDIDVICFTKGPGMGA
PLHSVVIAARTCSLLWDVPLVGVNHCIGHIEMGREITKAQNPVVLVYSSGNTQVIAYS
EKRYRIFGETLDIAIGNCLDRFARTLKIPNEPSPGYNIEQLAKKAPHKENLVELPYTVK
GMDLSMSGILASIDLLAKDLFKGNKKNILFDKTTGEQKVTVEDLCYSLQENLFAMLV
EITERAMAHVNSNQVLIVGGVGCNVLRLQEMMAQMCKDRANGQVHATDNRFCIDNG
VMIAQAGLLEYRMGGIVKDFSETVVTQKFRTDEVYAAWRD

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

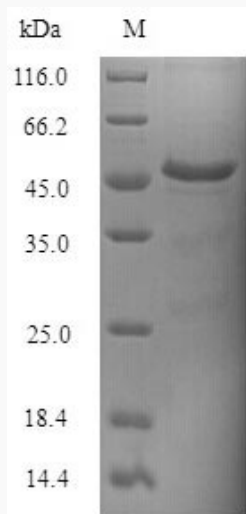
Synonyms KAE1; Kinase-associated endopeptidase 1 N6-L-threonylcarbamoyladenine synthase
Short name: t(6)A synthase t(6)A37 threonylcarbamoyladenosine biosynthesis protein
KAE1 tRNA threonylcarbamoyladenosine biosynthesis protein KAE1;

UniProt ID [P36132](#)

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

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