

Recombinant Saccharomyces cerevisiae Probable tRNA threonylcarbamoyladenine biosynthesis protein KAE1(KAE1)



Catalog No: #AP73771

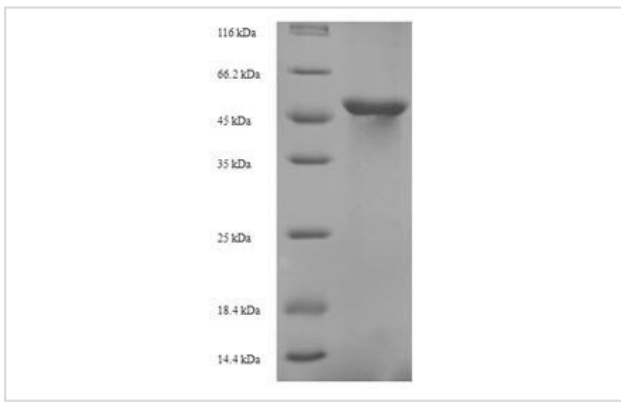
Orders: order@abscitech.com
Support: tech@abscitech.com

Package Size: #AP73771-1 10ug #AP73771-2 50ug #AP73771-3 100ug #AP73771-4 200ug #AP73771-5 500ug #AP73771-6 1mg

Description	
Product Name	Recombinant Saccharomyces cerevisiae Probable tRNA threonylcarbamoyladenine biosynthesis protein KAE1(KAE1)
Brief Description	Recombinant Protein
Host Species	E.coli
Target Name	KAE1
Other Names	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
Accession No.	Uniprot ID: P36132
Target Species	Saccharomyces cerevisiae (strain ATCC 204508 / S288c) (Baker
SDS-PAGE MW	46.82kDa
Target Length	Full Length, 1-386aa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MVNLNTIPPKNRDRYYIALGLEGSANKLGVGIVKHPLLPKHANSYDCEAEMLSNIRDTYVTPPGEGFLPRD TARHHRNWCIRLIKQALAEADIKSPTLDIDVICFTKGPGMGAPLHSVIAARTCSLLWDVPLVGVNHCIGHIEMG REITKAQNPVVLVYVSGGNTQVIAYSEKRYRIFGETLDIAIGNCLDRFARTLKIPNEPSPGYNIEQLAKKAPHKENL VELPYTVKGMDSLMSGILASIDLLAKDLFKGNKKNKILFDKTTGEQKVTVEDLCYSLQENLFAMLVEITERAMAH VNSNQVLIVGGVGCNVRQLQEMMAQMCKDRANGQVHATDNRFCDNGVMIAQAGLLEYRMGGIVKDFSETVV TQKFRTDEVYAAWRD
Formulation	Tris-based buffer, 50% glycerol
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.

Application Details	
Greater than 90% as determined by SDS-PAGE.	

Images	
--------	--



Background

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)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.