Adenylyltransferase and Sulfurtransferase UBA4 (UBA4) Yarrowia Lipolytica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Adenylyltransferase and sulfurtransferase UBA4 (UBA4), Recombinant Protein
Full Product Name	Recombinant Yarrowia lipolytica Adenylyltransferase and sulfurtransferase UBA4 (UBA4)
Product Gene Name	UBA4 recombinant protein
Product Synonym Gene Name	UBA4
Sequence	MDRSDSEKTD VLPMFKQEYG RYGRQMLVPE FGISGQLDLR SKRILVVGAG GLGSPAIQYL AGAGIGHITI IDDDTVEESN LHRQTIHAGN VNVPKSESAA EFVGKLNPCI SVTPMVVRLS PSNSFSVFEG HDLVLDCTDG PAVRYLINDT AVLSGIPVVS ASALKTEGQL SIYNYNGGPC YRCLFPIPPP ADAVQTCGDG GIMGPVVGMM GMSQAMEAIK LLTGVYSESF TPFLMLYSAY NFPPWKSVKV RKRQKTCAAC GDVPRISRQL IETGQVDYSE FCGSPSQVLL GEEHRITPEE YSKIVSTKHI LLDVRERPQF DITSFPRSIN IPWSELKHKE ELDVQVDGSP VYVVCRYGND SQNAVDKLQK LGIPSKDIKG GLYAWAKNVD EKFPIY
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	43,435 Da
Sequence Positions	1-396, Full length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6CBK1
Species	Yarrowia lipolytica (strain CLIB 122 / E 150) (Yeast) (Candida lipolytica)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for UBA4 recombinant protein	MBS1285663 is a recombinant protein targeting UBA4. Also known as Recombinant Yarrowia lipolytica Adenylyltransferase and sulfurtransferase UBA4 (UBA4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of UBA4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UBA4. It may not necessarily be applicable to this product.

NCBI GI #	50548981
NCBI GeneID	2909989
NCBI Accession #	XP_501961.1

UniProt Primary Accession #	Q6CBK1
UniProt Related Accession #	Q6CBK1
GenBank Nucleotide #	XM_501961.1
NCBI Official Full Name	YALI0C18095p
NCBI Official Symbol	YALI0_C18095g
UniProt Protein Name	Adenylyltransferase and sulfurtransferase UBA4
UniProt Synonym Protein Names	Ubiquitin-like protein activator 4
Protein Family	Adenylyltransferase and sulfurtransferase
UniProt Gene Name	UBA4
NCBI Protein Information	YALI0C18095p
UniProt Comments for UBA4	Plays a central role in 2-thiolation of mcm5S2U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Acts by mediating the C-terminal thiocarboxylation of sulfur carrier URM1. Its N-terminus first activates URM1 as acyl-adenylate (-COAMP), then the persulfide sulfur on the catalytic cysteine is transferred to URM1 to form thiocarboxylation (-COSH) of its C-terminus. The reaction probably involves hydrogen sulfide that is generated from the persulfide intermediate and that acts as nucleophile towards URM1. Subsequently, a transient disulfide bond is formed. Does not use thiosulfate as sulfur donor; NFS1 probably acting as a sulfur donor for thiocarboxylation reactions. Prior mcm5 tRNA modification by the elongator complex is required for 2-thiolation. May also be involved in protein urmylation.
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