Alanine--Trna Ligase (ALA1) Candida Albicans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alanine--tRNA ligase (ALA1), Recombinant Protein
Full Product Name	Recombinant Candida albicans Alanine--tRNA ligase (ALA1), partial
Product Gene Name	ALA1 recombinant protein
Product Synonym Gene Name	ALA1
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	107,263 Da
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 Q5A8K2
Species	Candida albicans (strain SC5314 / MYA-2876) (Yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ALA1 recombinant protein	MBS1285534 is a recombinant protein targeting ALA1. Also known as Recombinant Candida albicans Alanine--tRNA ligase (ALA1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ALA1 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 ALA1. It may not necessarily be applicable to this product.

NCBI GI #	68475751
NCBI GeneID	3640285
NCBI Accession #	XP_718082.1
UniProt Primary Accession #	Q5A8K2
UniProt Secondary Accession #	A0A1D8PQ88
UniProt Related Accession #	Q5A8K2
GenBank Nucleotide #	XM_712989.2
NCBI Official Full Name	alanine--tRNA ligase
NCBI Official Symbol	ALA1

UniProt Protein Name	Alanine--tRNA ligase
UniProt Synonym Protein Names	Alanyl-tRNA synthetase
Protein Family	Phospholipid-transporting ATPase
UniProt Gene Name	ALA1
UniProt Synonym Gene Names	AlaRS
NCBI Protein Information	alanine--tRNA ligase
UniProt Comments for ALA1	Catalyzes the attachment of alanine to tRNA(Ala) in a two-step reaction: alanine is first activated by ATP to form Ala-AMP and then transferred to the acceptor end of tRNA(Ala). Also edits incorrectly charged tRNA(Ala) via its editing domain.
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