Alanine--Trna Ligase (alaS) Desulforudis Audaxviator Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alanine--tRNA ligase (alaS), Recombinant Protein
Full Product Name	Recombinant Desulforudis audaxviator Alanine--tRNA ligase (alaS), partial
Product Gene Name	alaS recombinant protein
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	97,049 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 B1I370
Species	Desulforudis audaxviator (strain MP104C)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for alaS recombinant protein	MBS1256459 is a recombinant protein targeting alaS. Also known as Recombinant Desulforudis audaxviator Alanine--tRNA ligase (alaS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of alaS 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 alaS. It may not necessarily be applicable to this product.

NCBI GI #	501258993
NCBI Accession #	WP_012302011.1
UniProt Primary Accession #	B1I370
GenBank Nucleotide #	WP_012302011.1
NCBI Official Full Name	alanine--tRNA ligase
UniProt Protein Name	Alanine--tRNA ligase
UniProt Synonym Protein Names	Alanyl-tRNA synthetase
Protein Family	Alanine--tRNA ligase
UniProt Gene Name	alaS
UniProt Synonym Gene Names	AlaRS

UniProt Comments for alaS	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 Ser-tRNA(Ala) and Gly-tRNA(Ala) via its editing domain.
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