Alanine--Trna Ligase (Alas), Partial (alaS) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alanine--tRNA ligase (alaS), partial, Recombinant Protein
Full Product Name	Recombinant Buchnera aphidicola subsp. Cinara cedri Alanine--tRNA ligase (alaS), partial
Product Gene Name	alaS recombinant protein
Product Synonym Gene Name	alaS; BCc_254
Product Synonym Names	Alanine--tRNA ligase; EC=6.1.1.7; Alanyl-tRNA synthetase; AlaRS
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	104,147 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 Q057H8
Species	Buchnera aphidicola subsp. Cinara cedri (strain Cc)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for alaS recombinant protein	MBS1236890 is a recombinant protein targeting alaS. Also known as Recombinant Buchnera aphidicola subsp. Cinara cedri 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 #	116515185
NCBI GeneID	4440758
NCBI Accession #	YP_802814.1
UniProt Primary Accession #	Q057H8
UniProt Related Accession #	Q057H8
GenBank Nucleotide #	NC_008513.1
NCBI Official Full Name	hypothetical protein BCc_254
NCBI Official Symbol	alaS

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 Entry Name	SYA_BUCCC
NCBI Protein Information	hypothetical protein
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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