Aspartate--Trna Ligase (aspS) Silicibacter Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aspartate--tRNA ligase (aspS), Recombinant Protein
Full Product Name	Recombinant Silicibacter sp. Aspartate--tRNA ligase (aspS), partial
Product Gene Name	aspS recombinant protein
Product Synonym Gene Name	aspS
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	67,164 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 Q1GIZ8
Species	Silicibacter sp. (strain TM1040)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aspS recombinant protein	MBS1425288 is a recombinant protein targeting aspS. Also known as Recombinant Silicibacter sp. Aspartate--tRNA ligase (aspS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of aspS 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 aspS. It may not necessarily be applicable to this product.

NCBI GI #	499857246
NCBI Accession #	WP_011537980.1
UniProt Primary Accession #	Q1GIZ8
GenBank Nucleotide #	WP_011537980.1
NCBI Official Full Name	aspartate--tRNA(Asp/Asn) ligase
UniProt Protein Name	Aspartate--tRNA(Asp/Asn) ligase
UniProt Synonym Protein Names	Aspartyl-tRNA synthetase
Protein Family	Aspartate--tRNA ligase
UniProt Gene Name	aspS

UniProt Synonym Gene Names	AspRS; ND-AspRS
UniProt Comments for aspS	Aspartyl-tRNA synthetase with relaxed tRNA specificity since it is able to aspartylate not only its cognate tRNA(Asp) but also tRNA(Asn). Reaction proceeds in two steps: L-aspartate is first activated by ATP to form Asp-AMP and then transferred to the acceptor end of tRNA(Asp/Asn).
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