Proline--Trna Ligase (proS) Nostoc Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Proline--tRNA ligase (proS), Recombinant Protein
Full Product Name	Recombinant Nostoc sp. Proline--tRNA ligase (proS), partial
Product Gene Name	proS recombinant protein
Product Synonym Gene Name	proS
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	67,646 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 Q8YM83
Species	Nostoc sp. (strain PCC 7120 / UTEX 2576)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for proS recombinant protein	MBS1319593 is a recombinant protein targeting proS. Also known as Recombinant Nostoc sp. Proline--tRNA ligase (proS), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of proS 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 proS. It may not necessarily be applicable to this product.

NCBI GI #	499308404
NCBI Accession #	WP_010999179.1
UniProt Primary Accession #	Q8YM83
GenBank Nucleotide #	WP_010999179.1
NCBI Official Full Name	MULTISPECIES: proline--tRNA ligase
UniProt Protein Name	Proline--tRNA ligase
UniProt Synonym Protein Names	Prolyl-tRNA synthetase
Protein Family	Homeobox protein
UniProt Gene Name	proS

UniProt Synonym Gene Names	ProRS
UniProt Comments for proS	Catalyzes the attachment of proline to tRNA(Pro) in a two-step reaction: proline is first activated by ATP to form Pro-AMP and then transferred to the acceptor end of tRNA(Pro). As ProRS can inadvertently accommodate and process non-cognate amino acids such as alanine and cysteine, to avoid such errors it has two additional distinct editing activities against alanine. One activity is designated as 'pretransfer' editing and involves the tRNA(Pro)-independent hydrolysis of activated Ala-AMP. The other activity is designated 'posttransfer' editing and involves deacylation of mischarged Ala-tRNA(Pro). The misacylated Cys-tRNA(Pro) is not edited by ProRS.
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