Proline--Trna Ligase (proS) Geobacter Sulfurreducens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Proline--tRNA ligase (proS), Recombinant Protein
Full Product Name	Recombinant Geobacter sulfurreducens 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	63,154 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 Q74D59
Species	Geobacter sulfurreducens (strain 51573 / DSM 12127 / PCA)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for proS recombinant protein	MBS1389249 is a recombinant protein targeting proS. Also known as Recombinant Geobacter sulfurreducens 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 #	39996560
NCBI GeneID	2686217
NCBI Accession #	NP_952511.1
UniProt Primary Accession #	Q74D59
UniProt Related Accession #	Q74D59
GenBank Nucleotide #	NC_002939.5
NCBI Official Full Name	prolyl-tRNA ligase
NCBI Official Symbol	proS
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
NCBI Protein Information	prolyl-tRNA ligase
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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