Proline--Trna Ligase (proS) Metallosphaera Sedula Recombinant Protein

PRODUCT OVERVIEW

Product Name	Proline--tRNA ligase (proS), Recombinant Protein
Full Product Name	Recombinant Metallosphaera sedula Proline--tRNA ligase (proS)
Product Gene Name	proS recombinant protein
Sequence	MKISREKWSS NFSEWFDWVI SQAEIYDYGR YPVKGSGVWM PYGFKIRQNV TTLIRKLLDE TGHEEVLFPL LIPETLLKKE AEHIKGFEKE VFWVTHGGED ELEERFALRP TSEVAITLME SLWIKGYSQL PRKFYQIVSV FRYETKATRP MIRVRELSTF KEAHTVHETF EDAARQVDEA VEIYSKFFDI LGIPYLISRR PEWDKFAGAE YTIALDTIMP DGRALQIGTA HHLGQHFTKA MDYKVQRADG SHVHPHQTSY GISDRVIATV ISINGDDHGP ILPPVVAPIE GVIIPIPGKS EEDTEKINKY AMEVESVLKN SGIRVALDAS EDKTPGEKYY IWELKGVPIR IEIGPRELNS GTAFLKRRDT LEGKSVKREE LVKEFRNLED QISADLRKRA WEQFKERVKR FQSLDEAKKF LENRGGIAEV PWCGQDSCGL KIEEQVQARV LGTPLKPEPS GNCVVCGKPS TNILRIAKTY
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	54,960 Da
Sequence Positions	1-480, Full length protein
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 A4YI09
Species	Metallosphaera sedula (strain 51363 / DSM 5348)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for proS recombinant protein	MBS1228846 is a recombinant protein targeting proS. Also known as Recombinant Metallosphaera sedula Proline--tRNA ligase (proS). 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 #	500928876
NCBI Accession #	WP_012021848.1
UniProt Primary Accession #	A4YI09
GenBank Nucleotide #	WP_012021848.1
NCBI Official Full Name	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).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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