Pyrrolysine--Trna Ligase (pylS) Methanosarcina Mazei Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pyrrolysine--tRNA ligase (pylS), Recombinant Protein
Full Product Name	Recombinant Methanosarcina mazei Pyrrolysine--tRNA ligase (pylS)
Product Gene Name	pylS recombinant protein
Product Synonym Gene Name	pylS; MM_1445
Product Synonym Names	Pyrrolysine--tRNA ligase; EC=6.1.1.26; Pyrrolysine--tRNA(Pyl) ligase; Pyrrolysyl-tRNA synthetase; PylRS
Sequence	MDKKPLNTLI SATGLWMSRT GTIHKIKHHE VSRSKIYIEM ACGDHLVVNN SRSSRTARAL RHHKYRKTCK RCRVSDEDLN KFLTKANEDQ TSVKVKVVSA PTRTKKAMPK SVARAPKPLE NTEAAQAQPS GSKFSPAIPV STQESVSVPA SVSTSISSIS TGATASALVK GNTNPITSMS APVQASAPAL TKSQTDRLEV LLNPKDEISL NSGKPFRELE SELLSRRKKD LQQIYAEERE NYLGKLEREI TRFFVDRGFL EIKSPILIPL EYIERMGIDN DTELSKQIFR VDKNFCLRPM LAPNLYNYLR KLDRALPDPI KIFEIGPCYR KESDGKEHLE EFTMLNFCQM GSGCTRENLE SIITDFLNHL GIDFKIVGDS CMVYGDTLDV MHGDLELSSA VVGPIPLDRE WGIDKPWIGA GFGLERLLKV KHDFKNIKRA ARSESYYNGI STNL
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	50,921 Da
Sequence Positions	1-454aa; 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 Q8PWY1
Species	Methanosarcina mazei (strain BAA-159 / DSM 3647 / Goe1 / Go1 / JCM 11833 / OCM 88) (Methanosarcina frisia)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pylS recombinant protein	MBS1404225 is a recombinant protein targeting pylS. Also known as Recombinant Methanosarcina mazei Pyrrolysine--tRNA ligase (pylS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pylS 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 pylS. It may not necessarily be applicable to this product.

NCBI GI #	21227547
NCBI GeneID	1479787
NCBI Accession #	NP_633469.1

UniProt Primary Accession #	Q8PWY1
UniProt Related Accession #	Q8PWY1
GenBank Nucleotide #	NC_003901.1
NCBI Official Full Name	pyrolysyl-tRNA synthetase
NCBI Official Symbol	pylS
UniProt Protein Name	Pyrrolysine--tRNA ligase
UniProt Synonym Protein Names	Pyrrolysine--tRNA(Pyl) ligasePyrrolysyl-tRNA synthetase
Protein Family	Pyrrolysine--tRNA ligase
UniProt Gene Name	pylS
UniProt Synonym Gene Names	MM_1445; PylRS
UniProt Entry Name	PYLS_METMA
NCBI Protein Information	pyrolysyl-tRNA synthetase
UniProt Comments for pylS	Catalyzes the attachment of pyrrolysine to tRNA(Pyl). Pyrrolysine is a lysine derivative encoded by the termination codon UAG.
Research Articles on pylS	**1.** A novel crystal form contains two pyrrolysyl-tRNA synthetase dimers in the asymmetric unit, in which two subunits in one dimer each bind N-(tert-butyloxycarbonyl)-L-lysyladenylate (BocLys-AMP) and the two subunits in the other dimer each bind AMP.
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