Serine--Trna Ligase (serS) Streptococcus Pyogenes Serotype M12 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine--tRNA ligase (serS), Recombinant Protein
Full Product Name	Recombinant Streptococcus pyogenes serotype M12 Serine--tRNA ligase (serS)
Product Gene Name	serS recombinant protein
Product Synonym Gene Name	serS
Sequence	MLDLKRIRTD FDTVAAKLKN RGVSEDTLTH LKELDEKRRT LLVQSEELKA ERNIASAAIA QAKRQKEDAT QQIADMQKVS ADIKTIDNQL VAIDQQVTDI ITVLPNTPHD SVPVGADEED NVEIRRWGTP RDFNFEVKAH WDLGEDLDIL DWERGAKVTG ARFLFYKNLG ARLERALYNF MLDEHIKEGY QEIITPYMVN HDSMFGTGQY PKFKEDTFEL ADTNFVLIPT AEVPLTNYYR GEILDGKELP IYFTAMSPSF RSEAGSAGRD TRGLIRLHQF HKVEMVKFAK PEESYQELEK MTANAENILQ KLGLPYRVIS LCTGDMGFSA AKTYDLEVWI PAQNTYREIS SCSNTEDFQA RRAQIRYRDE ADGKVKLLHT LNGSGLAVGR TVAAILENYQ NEDGSVTIPE VLRPYMGGET VISPK
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	48,210 Da
Sequence Positions	1-425, 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 Q1JA99
Species	Streptococcus pyogenes serotype M12 (strain MGAS2096)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for serS recombinant protein	MBS1349069 is a recombinant protein targeting serS. Also known as Recombinant Streptococcus pyogenes serotype M12 Serine--tRNA ligase (serS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of serS 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 serS. It may not necessarily be applicable to this product.

NCBI GI #	489078692
NCBI Accession #	WP_002988632.1
UniProt Primary Accession #	Q1JA99
GenBank Nucleotide #	WP_002988632.1

NCBI Official Full Name	serine--tRNA ligase
UniProt Protein Name	Serine--tRNA ligase
UniProt Synonym Protein Names	Seryl-tRNA synthetase
Protein Family	Serine--tRNA ligase
UniProt Gene Name	serS
UniProt Synonym Gene Names	SerRS
UniProt Comments for serS	Catalyzes the attachment of serine to tRNA(Ser). Is also able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyl-tRNA(Sec).
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