Glycine--Trna Ligase Beta Subunit (glyS) Listeria Monocytogenes Serotype 4a Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glycine--tRNA ligase beta subunit (glyS), Recombinant Protein
Full Product Name	Recombinant Listeria monocytogenes serotype 4a Glycine--tRNA ligase beta subunit (glyS)
Product Gene Name	glyS recombinant protein
Product Synonym Gene Name	glyS
Product Synonym Names	Recombinant Glycine--tRNA ligase beta subunit (glyS); Glycine--tRNA ligase beta subunit EC= 6.1.1.14; Glycyl-tRNA synthetase beta subunit; GlyRS
Sequence	MSKDFLLEIG LEEMPAQYVT SSVLQLEKRV TDWLTENKIE FGEIKTYSTP RRLTVLVEGM AEEQANRVEE AKGPAKKIAL DDEGNWSKAA LGFAKSQKVD PADLTFRDIK GVEYIYIKKE VIGEKTSTLL PNLEKVVTSM TFPVSMHWGS NDLRYIRPIK WLIAMFGEEI IPFEITGVTT SNTSRGHRFL GKSATIKQPS DYPNALLEQF VVVNAEERKQ AIVEQLRELE SMENWQIKED DDLLEEVTNL VEYPTVLSGN FEKEYLELPE EVLITTMKEH QRYFPVFSQA GELLPHFVTV RNGNHENLDT VARGNEKVLR ARLSDADFFY QEDLKMTIDE AVAKLQNIVF HEKLGTLTEK MKRVQKVALM LADYLDWQEE DKQDIIRLTN IYKFDLVTNI VGEFPELQGL MGEKYALLQG EKPAIATAIR EHYLPNSAEG ELPQTDLGSL IAIADKLETL IGFFCVNIVP TGSADPFGLR RSAFGAMRII QANGWDIPML EVISRIVDME RAEGSAELPG ADVKKEVQTF LKNRLRVILQ GHHIRHDIID AVIGGDPNVI PQLIDRAQIL NEHAEAEWFR PTIEALSRVV KIAKKYEDGV EVDPALFENE YEQALFDKLE KLKFDYAGLT IIERLKAFAD LRTTIDAYFD NTLVMSDNDE LKNNRLALLF ELASFIKEFA QMDEINVK
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	78,376 Da
Sequence Positions	1-688
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.
Chromosome Location	NC_011660.1 (1147544..1149610)
3D Structure	ModBase 3D Structure for B8DE53
Species	Listeria monocytogenes serotype 4a (strain HCC23)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glyS recombinant protein	MBS1192911 is a recombinant protein targeting glyS. Also known as Recombinant Listeria monocytogenes serotype 4a Glycine--tRNA ligase beta subunit (glyS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glyS 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 glyS. It may not necessarily be applicable to this product.

NCBI GI #	217964396
NCBI GeneID	7081059
NCBI Accession #	YP_002350074.1
UniProt Primary Accession #	B8DE53
UniProt Related Accession #	B8DE53
GenBank Nucleotide #	NC_011660.1
NCBI Official Full Name	glycyl-tRNA synthetase subunit beta
NCBI Official Symbol	glyS
UniProt Protein Name	Glycine--tRNA ligase beta subunit
UniProt Synonym Protein Names	Glycyl-tRNA synthetase beta subunit
Protein Family	Glycine--tRNA ligase
UniProt Gene Name	glyS
UniProt Synonym Gene Names	GlyRS
UniProt Entry Name	SYGB_LISMH
NCBI Protein Information	glycyl-tRNA synthetase subunit beta
UniProt Comments for glyS	Catalytic activity: ATP + glycine + tRNA(Gly) = AMP + diphosphate + glycyl-tRNA(Gly). HAMAP-Rule MF_00255 Subunit structure: Tetramer of two alpha and two beta subunits By similarity. Subcellular location: Cytoplasm By similarity HAMAP-Rule MF_00255. Sequence similarities: Belongs to the class-II aminoacyl-tRNA synthetase family.
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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