Glutamate--Trna Ligase (gltX) Synechococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase (gltX), Recombinant Protein
Full Product Name	Recombinant Synechococcus sp. Glutamate--tRNA ligase (gltX)
Product Gene Name	gltX recombinant protein
Sequence	MVRVRLAPSP TGTLHIGTAR TAVFNWLFAR NQNGSFLLRI EDTDKERSKP EFTQNILEGL QWLGLDWDGD PVIQSEQTER HRSAIQTLLE KGLAYRCYAS EEELDAMRTQ QKAANQAPRY DNRHRDLTPE QEAAFQAEGR DAVIRFRIDE HREIRWNDLV RGPMLWRGAD LGGDMVVARR APADQIGDPL YNLVVVIDDA AMAISHVIRG EDHIANTAKQ LLLYEALSLP VPTFAHAPLI LNPEGRKLSK RDGVTSINDF RAMGYTPEAL ANYMTLLGWS VPEGMNEIFT LEAAAKVFDF DRVNKAGAKF DWDKLNWLNA QVLHSWEPAN LLNALAPLWA DQGWTLPDTT GWSLSLVELL GPSLTLLNDG VDQAKPFFME PALEDDALKQ LDQEGAKACL QALLSTLEEA PWSGESIDQA QEMLKSAAAT AGVKKGILMK SLRAALLGRL QGPDLLTTWS LLAQIGQDLP RLRRCL
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	53,105 Da
Sequence Positions	1-476, 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 A5GMU7
Species	Synechococcus sp. (strain WH7803)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX recombinant protein	MBS1227194 is a recombinant protein targeting gltX. Also known as Recombinant Synechococcus sp. Glutamate--tRNA ligase (gltX). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gltX 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 gltX. It may not necessarily be applicable to this product.

NCBI GI #	500466900
NCBI Accession #	WP_011933734.1
UniProt Primary Accession #	A5GMU7
GenBank Nucleotide #	WP_011933734.1
NCBI Official Full Name	glutamate--tRNA ligase

UniProt Protein Name	Glutamate--tRNA ligase
UniProt Synonym Protein Names	Glutamyl-tRNA synthetase
Protein Family	Glutamate--tRNA ligase
UniProt Gene Name	gltX
UniProt Synonym Gene Names	GluRS
UniProt Comments for gltX	Catalyzes the attachment of glutamate to tRNA(Glu) in a two-step reaction: glutamate is first activated by ATP to form Glu-AMP and then transferred to the acceptor end of tRNA(Glu).
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