Glutamate--Trna Ligase (gltX) Vibrio Fischeri Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase (gltX), Recombinant Protein
Full Product Name	Recombinant Vibrio fischeri Glutamate--tRNA ligase (gltX)
Product Gene Name	gltX recombinant protein
Product Synonym Gene Name	gltX
Sequence	MTVKTRFAPS PTGYLHVGGA RTALYSWLFA KNQGGEFVLR IEDTDLERNS QEAVDAIIEG MHWMGMEWDE GPYYQSKRFD RYNEVVDQLL AEDKAYKCYA SKELLDEIRA EQEANKEMAR YDANHPKIVA ANAAAKEGDA CVIRFRNPKE GSVVFDDQIR GRIEISNSQL DDLIIRRTDG APTYNFVVVV DDWDMGITQV IRGEDHINNT PRQINIYEAL GAPVPMFAHC AMILGDDGAK LSKRHGAVSV MQYRDEGYLP NALNNYLVRL GWSHGDQEIF SQEEMINLFS LSAVSKSASA FNTDKLLWLN NHYIKSSEPE YVAKYLQWHL DQKEISLDNG PAITEVIKLV GERCNTLIEL ADQSRYFYQD FEEFEAGAAK KHLRGVAKGP LELALAKVEA LEEWTTENLH NVIEEVCAEL EIGMGKIGMP LRVAVTGGGQ SPSVDAVMQL VGKERVVARI KMALAFIAER EANA
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	53,249 Da
Sequence Positions	1-474, 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 Q5E3L4
Species	Vibrio fischeri (strain 700601 / ES114)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX recombinant protein	MBS1318689 is a recombinant protein targeting gltX. Also known as Recombinant Vibrio fischeri 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 #	499581597
NCBI GeneID	3279045
NCBI Accession #	WP_011262380.1
UniProt Primary Accession #	Q5E3L4

UniProt Related Accession #	Q5E3L4
GenBank Nucleotide #	WP_011262380.1
NCBI Official Full Name	glutamate--tRNA ligase
NCBI Official Symbol	gltX
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
NCBI Protein Information	glutamyl-tRNA synthetase
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).
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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