Glutamate--Trna Ligase 1 (gltX1) Ehrlichia Chaffeensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase 1 (gltX1), Recombinant Protein
Full Product Name	Recombinant Ehrlichia chaffeensis Glutamate--tRNA ligase 1 (gltX1)
Product Gene Name	gltX1 recombinant protein
Product Synonym Gene Name	gltX1
Sequence	MITRFAPSPT GYLHVGNVRT ALVCWLYARK QNGKFLLRFD DTDTQRSKDE YIREIENDLV WLNINWDSSF RQSSRFDRYE DVFNYLLKEG LIYPCYESKE ELEFKRKMKL KLGLPPIYDR SALNLTQAEK DKYSERAPYF RFKIDQNQLI SWNDEVRGKV SFNSENISDP IIRRVDGTYT YMLPSIIDDM DFNVTHIIRG EDHISNTAVQ IQMLHALKAS IPIFSHLSLL YSDDNKISKR VGGSSVKDMQ SYGLEPMAIN SYFAKIGTSN PVSVHTRMCG LIDSFDITTF SQAPTKFNID DVLKLNPKVL CSMSFDDVRN RLQSFNITSP SFWNFVCGNI DKFSDIEGWA KICSGDMIPV IGQDDKDFIM LALNMLPQGE VRDNTWNLWI SNIKQHTDRR AKNLFTPLRL ALTGLSTGPE LAKLLPLIGR VEIVRRLSYS EVQ
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	51,094 Da
Sequence Positions	1-443, 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 Q2GHQ1
Species	Ehrlichia chaffeensis (strain Arkansas)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX1 recombinant protein	MBS1329913 is a recombinant protein targeting gltX1. Also known as Recombinant Ehrlichia chaffeensis Glutamate--tRNA ligase 1 (gltX1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gltX1 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 gltX1. It may not necessarily be applicable to this product.

NCBI GI #	499771725
NCBI Accession #	WP_011452459.1
UniProt Primary Accession #	Q2GHQ1
GenBank Nucleotide #	WP_011452459.1

NCBI Official Full Name	glutamate--tRNA ligase
UniProt Protein Name	Glutamate--tRNA ligase 1
UniProt Synonym Protein Names	Glutamyl-tRNA synthetase 1
Protein Family	Glutamate--tRNA ligase
UniProt Gene Name	gltX1
UniProt Synonym Gene Names	GluRS 1
UniProt Comments for gltX1	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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