Glutamate--Trna Ligase 2 (gltX2) Anaplasma Marginale Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase 2 (gltX2), Recombinant Protein
Full Product Name	Recombinant Anaplasma marginale Glutamate--tRNA ligase 2 (gltX2)
Product Gene Name	gltX2 recombinant protein
Product Synonym Gene Name	gltX2
Sequence	MRVITRFAPS PTGSLHLGGA RTALFNWLFA RRHGGQFLLR MEDTDQERSS ETVAQSIIED MAWLGLHHDQ DVVIQSARRE RHTQVAEELL ARGKAYYCYC SEDDIAAEKL RHENEGKHYR HHCPSRDANH AQSGTAGVLR LKSPENREIK FTDGVYGEIS VSSEQIDDMV ILRSNGHPTY LLAVVVDDHD MCITHIIRGS DHITNTIKQM LLAEAMGWDN PQFCHIPLIH DEGGAKLSKR NRAPGVHEYR ELGFLPEAVC NYLLRMGWSH KDEEIITMQS ATQLFSIEKI GTSHSCLDSK KLLFLNHHYM NQKTELEILG LLLPFLEQEL GHTVAETKLA RLSLGVKKLM ERAKTLADLA RDSVFYVQNI PISVDDDAKQ VILKSSELLA KLVGAMSQIE PKTWTKDFLS SYIKEWTKSN DVVISDVYHL LRAAIAGRLS TPSISEVMEI LGQEECISRL RFFLNS
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	52,783 Da
Sequence Positions	1-466, 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 Q5PAG8
Species	Anaplasma marginale (strain St. Maries)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX2 recombinant protein	MBS1385959 is a recombinant protein targeting gltX2. Also known as Recombinant Anaplasma marginale Glutamate--tRNA ligase 2 (gltX2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gltX2 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 gltX2. It may not necessarily be applicable to this product.

NCBI GI #	656263860
NCBI GeneID	7398016
NCBI Accession #	WP_029209814.1
UniProt Primary Accession #	Q5PAG8

GenBank Nucleotide #	WP_029209814.1
NCBI Official Full Name	MULTISPECIES: glutamate--tRNA ligase
NCBI Official Symbol	AMF_RS07905
UniProt Protein Name	Glutamate--tRNA ligase 2
UniProt Synonym Protein Names	Glutamyl-tRNA synthetase 2
Protein Family	Glutamate--tRNA ligase
UniProt Gene Name	gltX2
UniProt Synonym Gene Names	GluRS 2
NCBI Protein Information	glutamate--tRNA ligase
UniProt Comments for gltX2	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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