Glutamate--Trna Ligase 2 (gltX2) Methylococcus Capsulatus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase 2 (gltX2), Recombinant Protein
Full Product Name	Recombinant Methylococcus capsulatus Glutamate--tRNA ligase 2 (gltX2)
Product Gene Name	gltX2 recombinant protein
Product Synonym Gene Name	gltX2
Sequence	MTHRTRFAPS PTGHLHIGGA RTALFSWLYA RKHGGTFILR IEDTDLERST VESVNAILEG MTWLGLEYDE GPFYQTHRFD RYREVMEQLL EEGHAYRCYC TKEELDELRA GQMERKEKPR YDGRCRHRSE PRPGVLPVIR FRNPTEGEVA WDDLVRGRIA FQNSELDDLI IARSDGTPTY NFTVVVDDLD MKISHVIRGD DHVNNTPRQI NILKALGVEP PRYGHVPMIL GADGARLSKR HGAVSVMQYR DEGYLPEALL NYLVRLGWSH GDQEIFSVDE MIEYFDANAI NHSAATFNPD KLLWLNHHYL MHSDPAHVAH HLRWHLGRLD IDPTEGPDPV DVVVAQRERC KTLVEMAQAS RFFYRDFDDY DPKSAQKYLT AASVPALESL RRHLAVVRSW EKEFLHAVLV ATGEEMGLKL GAVAQPLRVA VAGTAVSPPM DVTLHLLGQL RTLNRIDRAL QYIEAKKD
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	53,475 Da
Sequence Positions	1-468, 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 Q609J9
Species	Methylococcus capsulatus (strain 33009 / NCIMB 11132 / Bath)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX2 recombinant protein	MBS1314483 is a recombinant protein targeting gltX2. Also known as Recombinant Methylococcus capsulatus 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 #	499262978
NCBI Accession #	WP_010960518.1
UniProt Primary Accession #	Q609J9
GenBank Nucleotide #	WP_010960518.1

NCBI Official Full Name	glutamate--tRNA ligase 2
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
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).
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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