Glutamate--Trna Ligase (gltX) Desulfotalea Psychrophila Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase (gltX), Recombinant Protein
Full Product Name	Recombinant Desulfotalea psychrophila Glutamate--tRNA ligase (gltX)
Product Gene Name	gltX recombinant protein
Product Synonym Gene Name	gltX
Sequence	MTETRLRFPP SPTGYLHIGG ARTALYNWLY AKQHGGKLVL RIEDTDTERS TEESIKGIVD GLDWLGIDFD EGPYFQTDFA SDHKSAAQKL LDSGQAYKCF CSKESLDEKR EAALAAKKSL GYDGTCRNLT AEQIAEKEAA GAPYVLRFRV PECESVSYED KIAGTIRVAR SEIDDFVIVR SNGAPLYLLC NVVDDIRDRI SHVIRGQDHM TNTIKQILLY EALDAPIPVF AHMPLTLDNK RAKISKRSHG EIVAVQFYRD HGFLPWALNN FLAMLGWSAG DDKEFYTKEE LLKAFSLERI NKSSSIFNYR KGDPKFFTDP KAISMNEHYI RNMDITELGK LVQKELEADG LWDTAYADEK ADWYLATIDM IRARFHTLKD FATLGRAYFG EDYVVEEKPL KKNVLKFEGL KEWLPLLGER YASLDDFSAE ETERVARELA DELELKPGVI INGMRTAVTG QLAGPSMFDI VTTLGQERMV KRLREAGRLF A
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	55,678 Da
Sequence Positions	1-491, 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 Q6AJL4
Species	Desulfotalea psychrophila (strain LSv54 / DSM 12343)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX recombinant protein	MBS1345676 is a recombinant protein targeting gltX. Also known as Recombinant Desulfotalea psychrophila 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 #	752608657
NCBI Accession #	WP_041278044.1
UniProt Primary Accession #	Q6AJL4
GenBank Nucleotide #	WP_041278044.1

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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