Glutamate--Trna Ligase 1 (gltX1) Rubrobacter Xylanophilus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--tRNA ligase 1 (gltX1), Recombinant Protein
Full Product Name	Recombinant Rubrobacter xylanophilus Glutamate--tRNA ligase 1 (gltX1)
Product Gene Name	gltX1 recombinant protein
Product Synonym Gene Name	gltX1
Sequence	MAPSVRARFA PSPTGDLHLG GARTALFNYL FARHHGGRLL LRIEDTDRQR SRREHEERIL EDLGWLGLRF DEGPYRQSER GEVYAGYAGR LLEGGLAYEA EDASGRRAVY FRPPERGGAF RDALRGEVRF GGVRDFVILK SDGMPAYNFA AVVDDIEMEI THVIRGEEHL PNTGRQALLY RALGVPEPEF LHLGLILGPD GRKLSKRHGA QSVRGYREEG YLPEALLNYL ALLGWTHPEG REEFSGLEEL VAEWDPSRLG SSPARFDPQR LLYFNARHLR RLPARRLARL VEPFLEEPLP PGREEVAVEA VREELRLLSD APRLLGRLLG PVDPGAAAGR PPGGAGEALA AASRLLESRR PEGLEEAREL LAALRRWAKE RGIKAREALH PLRVALTGED RGPRLEYIIV LLGPEEAQKR IERAREARLR 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	48,343 Da
Sequence Positions	1-431, 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 Q1AU10
Species	Rubrobacter xylanophilus (strain DSM 9941 / NBRC 16129)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gltX1 recombinant protein	MBS1345352 is a recombinant protein targeting gltX1. Also known as Recombinant Rubrobacter xylanophilus 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 #	499884398
NCBI Accession #	WP_011565132.1
UniProt Primary Accession #	Q1AU10
GenBank Nucleotide #	WP_011565132.1

NCBI Official Full Name	glutamate--tRNA ligase 1
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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