Glutamyl-Q Trna (Asp) Synthetase (gluQ) Pseudomonas Syringae Pv. Tomato Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamyl-Q tRNA (Asp) synthetase (gluQ), Recombinant Protein
Full Product Name	Recombinant Pseudomonas syringae pv. tomato Glutamyl-Q tRNA (Asp) synthetase (gluQ)
Product Gene Name	gluQ recombinant protein
Product Synonym Gene Name	gluQ
Sequence	MKKPAYIGRF APTPSGYLHF GSLVAALASY LDARAVGGQW LLRMEDLDPP REVAGAQVAI LETLERYGFE WDGEMVRQSE RHDAYADILQ RWFNHGLAYA CTCSRKQLEA FEGVYPGFCR DAGHAAENAA IRIRVPELEY RFEDRVQGTF HMHLGRESGD FVIRRRDGLY AYQLAVVIDD AWQGVTDIVR GADLLDSTPR HLYLQELLGL PQPRYLHVPL ITQPDGHKLG KSYRSPPLPA DQATPLLLRA LRALGQPVDA HMADGTAQEV LAWGIRHWNA SLIPRQRTIE EARIA
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	33,236 Da
Sequence Positions	1-295, 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 Q888P9
Species	Pseudomonas syringae pv. tomato (strain DC3000)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gluQ recombinant protein	MBS1341789 is a recombinant protein targeting gluQ. Also known as Recombinant Pseudomonas syringae pv. tomato Glutamyl-Q tRNA (Asp) synthetase (gluQ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gluQ 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 gluQ. It may not necessarily be applicable to this product.

NCBI GI #	28868187
NCBI GeneID	1182596
NCBI Accession #	NP_790806.1
UniProt Primary Accession #	Q888P9

UniProt Related Accession #	Q888P9
GenBank Nucleotide #	NC_004578.1
NCBI Official Full Name	glutamyl-Q tRNA(Asp) synthetase
NCBI Official Symbol	PSPTO_0967
UniProt Protein Name	Glutamyl-Q tRNA(Asp) synthetase
Protein Family	Glutamyl-Q tRNA(Asp) synthetase
UniProt Gene Name	gluQ
UniProt Synonym Gene Names	Glu-Q-RSs
NCBI Protein Information	glutamyl-Q tRNA(Asp) synthetase
UniProt Comments for gluQ	Catalyzes the tRNA-independent activation of glutamate in presence of ATP and the subsequent transfer of glutamate onto a tRNA(Asp). Glutamate is transferred on the 2-amino-5-(4,5-dihydroxy-2-cyclopenten-1-yl) moiety of the queuosine in the wobble position of the QUC anticodon.
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