Glutamyl-Trna (Gln) Amidotransferase Subunit E (Gate), Partial (gatE) Methanosarcina Mazei Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamyl-tRNA (Gln) amidotransferase subunit E (gatE), partial, Recombinant Protein
Full Product Name	Recombinant Methanosarcina mazei Glutamyl-tRNA (Gln) amidotransferase subunit E (gatE), partial
Product Gene Name	gatE recombinant protein
Product Synonym Gene Name	gatE; MM_0050
Product Synonym Names	Glutamyl-tRNA(Gln) amidotransferase subunit E; Glu-ADT subunit E; EC=6.3.5.-
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	70,804 Da
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 Q8Q0T5
Species	Methanosarcina mazei (strain BAA-159 / DSM 3647 / Goe1 / Go1 / JCM 11833 / OCM 88) (Methanosarcina frisia)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatE recombinant protein	MBS1357513 is a recombinant protein targeting gatE. Also known as Recombinant Methanosarcina mazei Glutamyl-tRNA (Gln) amidotransferase subunit E (gatE), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gatE 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 gatE. It may not necessarily be applicable to this product.

NCBI GI #	21226152
NCBI GeneID	1478392
NCBI Accession #	NP_632074.1
UniProt Primary Accession #	Q8Q0T5
UniProt Related Accession #	Q8Q0T5
GenBank Nucleotide #	NC_003901.1
NCBI Official Full Name	glutamyl-tRNA(Gln) amidotransferase subunit E

NCBI Official Symbol	MM_0050
UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit E
UniProt Gene Name	gatE
UniProt Synonym Gene Names	Glu-ADT subunit E
UniProt Entry Name	GATE_METMA
NCBI Protein Information	glutamyl-tRNA(Gln) amidotransferase subunit E
UniProt Comments for gatE	Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in organisms which lack glutaminyl-tRNA synthetase. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln). The GatDE system is specific for glutamate and does not act on aspartate.
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