Glutamyl-Trna (Gln) Amidotransferase Subunit C (gatC) Caulobacter Crescentus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamyl-tRNA (Gln) amidotransferase subunit C (gatC), Recombinant Protein
Full Product Name	Recombinant Caulobacter crescentus Glutamyl-tRNA (Gln) amidotransferase subunit C (gatC)
Product Gene Name	gatC recombinant protein
Product Synonym Gene Name	gatC
Sequence	MAIDAATVRK VARLARIATP EERLEPLAQE LNGIMTWIEQ LAEVDTDGCE PLTSVVAAGL PLREDVVTMG GDPARVTSNA PKSINNFFVV PKVVE
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	10,215 Da
Sequence Positions	1-95, 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 Q9A5K9
Species	Caulobacter crescentus (strain 19089 / CB15)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatC recombinant protein	MBS1484248 is a recombinant protein targeting gatC. Also known as Recombinant Caulobacter crescentus Glutamyl-tRNA (Gln) amidotransferase subunit C (gatC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gatC 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 gatC. It may not necessarily be applicable to this product.

NCBI GI #	16126677
NCBI GeneID	943701
NCBI Accession #	NP_421241.1
UniProt Primary Accession #	Q9A5K9
UniProt Related Accession #	Q9A5K9
GenBank Nucleotide #	NC_002696.2

NCBI Official Full Name	glutamyl-tRNA(Gln) amidotransferase subunit C
NCBI Official Symbol	CC_2438
UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit C
Protein Family	PTS system galactitol-specific EIIC component
UniProt Gene Name	gatC
UniProt Synonym Gene Names	Glu-ADT subunit C
NCBI Protein Information	glutamyl-tRNA(Gln) amidotransferase subunit C
UniProt Comments for gatC	Allows the formation of correctly charged Asn-tRNA(Asn) or Gln-tRNA(Gln) through the transamidation of misacylated Asp-tRNA(Asn) or Glu-tRNA(Gln) in organisms which lack either or both of asparaginyl-tRNA or glutaminyl-tRNA synthetases. The reaction takes place in the presence of glutamine and ATP through an activated phospho-Asp-tRNA(Asn) or phospho-Glu-tRNA(Gln).
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