Aspartyl/Glutamyl-Trna (Asn/Gln) Amidotransferase Subunit C (gatC) Thermoanaerobacter Tengcongensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit C (gatC), Recombinant Protein
Full Product Name	Recombinant Thermoanaerobacter tengcongensis Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit C (gatC)
Product Gene Name	gatC recombinant protein
Product Synonym Gene Name	gatC; TTE0606
Product Synonym Names	Aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subunit C; Asp/Glu-ADT subunit C; EC=6.3.5.-
Sequence	MAISKSEVEY IAKLARLKFT EEEIEAMAQE LSKILDYVNK LNELDTENVE PTAHIVPIHN VFREDEVKPS MPREKVLMNA PFTEQGCFKV PKIIE
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	10,947 Da
Sequence Positions	1-95aa; 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 Q8RC41
Species	Thermoanaerobacter tengcongensis (strain DSM 15242 / JCM 11007 / NBRC 100824 / MB4) (Caldanaerobacter subterraneus subsp. tengcongensis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatC recombinant protein	MBS1314709 is a recombinant protein targeting gatC. Also known as Recombinant Thermoanaerobacter tengcongensis Aspartyl/glutamyl-tRNA (Asn/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 #	20807101
NCBI GeneID	996405
NCBI Accession #	NP_622272.1

UniProt Primary Accession #	Q8RC41
UniProt Related Accession #	Q8RC41
GenBank Nucleotide #	NC_003869.1
NCBI Official Full Name	aspartyl/glutamyl-tRNA amidotransferase subunit C
NCBI Official Symbol	gatC
UniProt Protein Name	Aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subunit C
Protein Family	PTS system galactitol-specific EIIC component
UniProt Gene Name	gatC
UniProt Synonym Gene Names	Asp/Glu-ADT subunit C
UniProt Entry Name	GATC_THETN
NCBI Protein Information	aspartyl/glutamyl-tRNA 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).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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