Aspartyl/Glutamyl-Trna (Asn/Gln) Amidotransferase Subunit C (gatC) Sphingopyxis Alaskensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit C (gatC), Recombinant Protein
Full Product Name	Recombinant Sphingopyxis alaskensis Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit C (gatC)
Product Gene Name	gatC recombinant protein
Product Synonym Gene Name	gatC
Sequence	MAIDQATVRK IASLARIAIS DAEAAAMEGE LNGILGWVEQ LGEVDVSGVE PMTAVIPNTL RLRDDVVDAD PLTGGNRRDD ILANAPAAMH GFFGVPKVIE
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	10,539 Da
Sequence Positions	1-100, 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 Q1GUW4
Species	Sphingopyxis alaskensis (strain DSM 13593 / LMG 18877 / RB2256) (Sphingomonas alaskensis)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatC recombinant protein	MBS1319243 is a recombinant protein targeting gatC. Also known as Recombinant Sphingopyxis alaskensis 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 #	499860414
NCBI Accession #	WP_011541148.1
UniProt Primary Accession #	Q1GUW4
GenBank Nucleotide #	WP_011541148.1
NCBI Official Full Name	Asp-tRNA(Asn)/Glu-tRNA(Gln) amidotransferase GatCAB subunit C

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 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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