Aspartyl/Glutamyl-Trna (Asn/Gln) Amidotransferase Subunit B (gatB) Synechococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B (gatB), Recombinant Protein
Full Product Name	Recombinant Synechococcus sp. Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B (gatB)
Product Gene Name	gatB recombinant protein
Product Synonym Gene Name	gatB
Sequence	MTVAAPAKVQ YEAVIGLEVH CQLSTRSKIF SSSATAFGAP PNTQIDPICM GLPGTLPVLN EKVLEYAVKA GLALNCTIAP YSKFDRKQYF YPDLPKNYQI SQYDLPIATH GWIEIQLSDG RTKRIGITRL HMEEDAGKLV HAGSDRLSGS SYSLVDFNRA GVPLIEIVSE PDIRSGEEAA EYVQELRRIL RYAGLCDGNL QEGSLRCDVN ISVRPLGSQT FGTKVEIKNM NSFNAIQRAI EYEFNRQVKA VEAGERIVQE TRLWEENSQR TISMRKKEGS SDYRYFPEPD LPPIRVTEAQ KTRWQAELPE LPGVKRRRYQ EVYGLSVYDA RYLSDERNTA EYFEAVIAAG ADPKAAANWM MSDIASYLNT HKLDYPDIAL KPETLAELIG LIEQGTISSK IAKEILPELL EKGGSARALV EAKGMTQISD SALLGQMIAE VLAENPEQLQ QYRGGKTKLF GYFVGQLMKK TQGRADPKLA NDLLKQHLDG
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	54,648 Da
Sequence Positions	1-490, 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 Q2JNH3
Species	Synechococcus sp. (strain JA-2-3B'a(2-13)) (Cyanobacteria bacterium Yellowstone B-Prime)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatB recombinant protein	MBS1323297 is a recombinant protein targeting gatB. Also known as Recombinant Synechococcus sp. Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B (gatB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gatB 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 gatB. It may not necessarily be applicable to this product.

NCBI GI #	499751617
NCBI Accession #	WP_011432351.1

UniProt Primary Accession #	Q2JNH3
GenBank Nucleotide #	WP_011432351.1
NCBI Official Full Name	Asp-tRNA(Asn)/Glu-tRNA(Gln) amidotransferase GatCAB subunit B
UniProt Protein Name	Aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase subunit B
Protein Family	Aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase
UniProt Gene Name	gatB
UniProt Synonym Gene Names	Asp/Glu-ADT subunit B
UniProt Comments for gatB	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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