Aspartyl/Glutamyl-Trna (Asn/Gln) Amidotransferase Subunit B (gatB) Prochlorococcus Marinus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B (gatB), Recombinant Protein
Full Product Name	Recombinant Prochlorococcus marinus Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B
Product Gene Name	gatB recombinant protein
Sequence	MKNLDPWEAV IGLETHVQLN TKSKIFTSAS TAFGDEPNTH VDPVVCGLPG TLPVLNETVL EYAVKTSLAL NLNVAEHCKF DRKQYFYPDL PKNYQISQFD EPLAENGWLE VEIAEKDKET YLKKIGIERL HMEEDAGKLV HAGSDRLAGS KYSLVDYNRA GIALVEIVSK PDIRTGREAS EYASEIRRTV RYLGVSDGNM QEGSLRCDVN ISVRRGPDSP FGTKVEIKNM NSFSAIQKAC EYEIKRQIDV YENGGEIFQE TRLWDEAKQL TKSMRLKEGS SDYRYFPDPD LGPIEISKEQ KDQWLNELPE LPSKKRHKYV KEFGLSPYDS RVISDEVFMA NFFEETVANG ADPKLASNWI TSDIVGYLKS NKQIFADLKL SPIYLAEMIN LISEKVISGK IAKDILPELI KKNISPQKLV KEKGLAMISD SDSILPIIED LINEFPKEVA SFKEGKTKLL GFFVGQLMKK TKGKVDPKLA NKLLAEKLNS
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	55,258 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 A2BU03
Species	Prochlorococcus marinus (strain MIT 9515)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatB recombinant protein	MBS1260536 is a recombinant protein targeting gatB. Also known as Recombinant Prochlorococcus marinus Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B. 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 #	500143378
NCBI Accession #	WP_011819381.1
UniProt Primary Accession #	A2BU03

GenBank Nucleotide #	WP_011819381.1
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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