Aspartyl/Glutamyl-Trna (Asn/Gln) Amidotransferase Subunit B (gatB) Caulobacter Crescentus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B (gatB), Recombinant Protein
Full Product Name	Recombinant Caulobacter crescentus Aspartyl/glutamyl-tRNA (Asn/Gln) amidotransferase subunit B (gatB)
Product Gene Name	gatB recombinant protein
Product Synonym Gene Name	gatB
Sequence	MNENTKVIKG RTGDWEMVLG LEVHAQVASK SKLFSGAAVG FGAGPNEQVS LVDAAMPGML PVLNRFCVEQ AVKTGLGLRA QINLKSRFDR KNYFYPDLPQ GYQISQFDQP IVGEGVVSVE RDDGTTFDVR IERLHLEQDA GKSLHDQDPN ATYVDLNRAG TALMEIVSKP DMRTSEEAAA YVKKLRTILV YLGTCDGDME KGNLRADVNV SVCRPGDYEK FRATGDFKHL GTRCEIKNVN SYRYIQQAIE YEARRQIEIL EDGGKVDQET RLFDPTKGET RSMRSKEEAH DYRYFPDPDL LPLVLDPAWV KSIEETLPEL PDAKKARLQS QYGLSAYDAG VLIIDADRAD YFEAAAKGRD AKLVANWVTN ELLAKLSAAG TEFTNSPLPH TDIAQLVELI ENGTISSKIA KEVFEHMWAG EGRPAEIVEK RGLVQINDTG AIEKAIDDLI AGNPDKAEAV KDKPQALGWF VGQVMKATGG KANPGTVNEL LRKKLGVE
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	55,020 Da
Sequence Positions	1-498, 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 Q9A5L1
Species	Caulobacter crescentus (strain 19089 / CB15)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatB recombinant protein	MBS1384866 is a recombinant protein targeting gatB. Also known as Recombinant Caulobacter crescentus 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 #	16126675
NCBI GeneID	943613

NCBI Accession #	NP_421239.1
UniProt Primary Accession #	Q9A5L1
UniProt Related Accession #	Q9A5L1
GenBank Nucleotide #	NC_002696.2
NCBI Official Full Name	aspartyl/glutamyl-tRNA amidotransferase subunit B
NCBI Official Symbol	gatB
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
NCBI Protein Information	aspartyl/glutamyl-tRNA amidotransferase 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).
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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