Glutamyl-Trna (Gln) Amidotransferase Subunit A (gatA) Mycobacterium Bovis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamyl-tRNA (Gln) amidotransferase subunit A (gatA), Recombinant Protein
Full Product Name	Recombinant Mycobacterium bovis Glutamyl-tRNA (Gln) amidotransferase subunit A
Product Gene Name	gatA recombinant protein
Sequence	MTDIIRSDAA TLAAKIAIKE VSSTEITRAC LDQIEATDET YHAFLHVAAD EALAAAAAVD KQVAAGEPLP SALAGVPLAL KDVFTTSDMP TTCGSKILEG WRSPYDATLT ARLRAAGIPI LGKTNMDEFA MGSSTENSAY GPTRNPWNLD RVPGGSGGGS AAALAAFQAP LAIGSDTGGS IRQPAALTAT VGVKPTYGTV SRYGLVACAS SLDQGGPCAR TVLDTALLHQ VIAGHDPRDS TSVDAEVPDV VGAARAGAVG DLRGVRVGVV RQLHGGEGYQ PGVLASFEAA VEQLTALGAE VSEVDCPHFD HALAAYYLIL PSEVSSNLAR FDAMRYGLRV GDDGTRSAEE VMAMTRAAGF GPEVKRRIMI GTYALSAGYY DAYYNQAQKV RTLIARDLDA AYRSVDVLVS PTTPTTAFRL GEKVDDPLAM YLFDLCTLPL NLAGHCGMSV PSGLSPDDGL PVGLQIMAPA LADDRLYRVG AAYEAARGPL LSAI
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	51,436 Da
Sequence Positions	1-494, 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 A1KN06
Species	Mycobacterium bovis (strain BCG / Pasteur 1173P2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatA recombinant protein	MBS1227451 is a recombinant protein targeting gatA. Also known as Recombinant Mycobacterium bovis Glutamyl-tRNA (Gln) amidotransferase subunit A. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gatA 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 gatA. It may not necessarily be applicable to this product.

NCBI GI #	499253272
NCBI GeneID	32288527
NCBI Accession #	WP_010950812.1
UniProt Primary Accession #	A1KN06

UniProt Related Accession #	Q7TXG2
GenBank Nucleotide #	WP_010950812.1
NCBI Official Full Name	MULTISPECIES: Asp-tRNA(Asn)/Glu-tRNA(Gln) amidotransferase GatCAB subunit A
NCBI Official Symbol	gatA
UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit A
Protein Family	Glutamyl-tRNA(Gln) amidotransferase
UniProt Gene Name	gatA
UniProt Synonym Gene Names	Glu-ADT subunit A
NCBI Protein Information	PROBABLE GLUTAMYL-TRNA(GLN) AMIDOTRANSFERASE (SUBUNIT A) GATA (Glu-ADT SUBUNIT A)
UniProt Comments for gatA	Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in organisms which lack glutaminyl-tRNA synthetase. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln).
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