# Glutamyl-Trna (Gln) Amidotransferase Subunit A (gatA) Bacillus Anthracis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Glutamyl-tRNA (Gln) amidotransferase subunit A (gatA), Recombinant Protein |
| **Full Product Name** | Recombinant Bacillus anthracis Glutamyl-tRNA (Gln) amidotransferase subunit A (gatA) |
| **Product Gene Name** | gatA recombinant protein |
| **Product Synonym Gene Name** | gatA |
| **Sequence** | MSLFDHSVSE LHKKLNNKEI SVTDLVEESY KRIADVEDNV KAFLTLDEEN ARAKAKELDA KIGAEDNGLL FGMPIGVKDN IVTNGLRTTC ASKILANFDP IYDATVVQKL KAADTITIGK LNMDEFAMGS SNENSGFYAT KNPWNLDYVP GGSSGGSAAA VAAGEVLFSL GSDTGGSIRQ PAAYCGVVGL KPTYGRVSRY GLVAFASSLD QIGPITRTVE DNAYLLQAIS GLDRMDATSA NVEVGNYLAG LTGDVKGLRI AVPKEYLGEG VGEEARESVL AALKVLEGMG ATWEEVSLPH SKYALATYYL LSSSEASANL SRFDGVRYGV RSDNVNNLMD LYKNTRSEGF GDEVKRRIML GTFALSSGYY DAYYKKAQQV RTLIKNDFEN VFANYDVIIG PTTPTPAFKV GEKVDDPMTM YANDILTIPV NLAGVPAISV PCGFGANNMP LGLQIIGKHF DEATIYRVAH AFEQATDHHT KKASL |
| **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** | 52,295 Da |
| **Sequence Positions** | 1-485, 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 Q81ZE8 |
| **Species** | Bacillus anthracis |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for gatA recombinant protein** | MBS1470183 is a recombinant protein targeting gatA. Also known as Recombinant Bacillus anthracis Glutamyl-tRNA (Gln) amidotransferase subunit A (gatA). 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.

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| **NCBI GI #** | 30260491 |
| **NCBI GeneID** | 1088221 |
| **NCBI Accession #** | NP_842868.1 |

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| **UniProt Primary Accession #** | Q81ZE8 |
| **UniProt Secondary Accession #** | Q6I494 |
| **GenBank Nucleotide #** | NC_003997.3 |
| **NCBI Official Full Name** | aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase 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** | aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase 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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