Glutamyl-Trna (Gln) Amidotransferase Subunit A 2 (gatA2) Clostridium Acetobutylicum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamyl-tRNA (Gln) amidotransferase subunit A 2 (gatA2), Recombinant Protein
Full Product Name	Recombinant Clostridium acetobutylicum Glutamyl-tRNA (Gln) amidotransferase subunit A 2 (gatA2)
Product Gene Name	gatA2 recombinant protein
Product Synonym Gene Name	gatA2
Sequence	MEILDMTVEQ LRNAILDKHL KSEDIVKAYF DNIKRNEPEI NAYITLCEDY ALKEAKDVDK KIANGDKVGR LAGIPIAIKD NICTDGIKTT CASKMLYDFV PPYDATVIKK LKAEDAIIIG KVNMDEFAMG SSTENSAFKI TKNPRDITRV PGGSSGGSAA VVAAKMAPIS LGSDTGGSIR QPAAFCGVVG LKPTYGLVSR FGLIAFASSL DQIGPLGKTV KDCAELLEVI SGEDELDNTS SKKHEKEDYL EGIDDGIKGM KIGMPKEFLN DGLDPEIRKC IDDTIEKLKS LGAEVCEMSL PITEEGLSAY YIISSAEASS NLARFDGIRY GYRPDDFEDV YDLMETSRSE AFGDEVKRRI MLGTYALSSG YYDAYYKRAL KLKKKIKNEF KEAFENYDLI LSPVSPVLPF KIGEKKADPL QMYLADIYTV NINLAGIPAI SLPCSVSKEG LPIGLQLLGP HFGEKKIFRA ARALEKER
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	52,481 Da
Sequence Positions	1-478, 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 Q97EX8
Species	Clostridium acetobutylicum (strain 824 / DSM 792 / JCM 1419 / LMG 5710 / VKM B-1787)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatA2 recombinant protein	MBS1384762 is a recombinant protein targeting gatA2. Also known as Recombinant Clostridium acetobutylicum Glutamyl-tRNA (Gln) amidotransferase subunit A 2 (gatA2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gatA2 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 gatA2. It may not necessarily be applicable to this product.

NCBI GI #	15896230
NCBI GeneID	1119160
NCBI Accession #	NP_349579.1

UniProt Primary Accession #	Q97EX8
UniProt Related Accession #	Q97EX8
GenBank Nucleotide #	NC_003030.1
NCBI Official Full Name	aspartyl/glutamyl-tRNA amidotransferase subunit A
NCBI Official Symbol	gatA
UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit A 2
Protein Family	Endothelial transcription factor
UniProt Gene Name	gatA2
UniProt Synonym Gene Names	Glu-ADT subunit A 2
NCBI Protein Information	aspartyl/glutamyl-tRNA amidotransferase subunit A
UniProt Comments for gatA2	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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