Glutamyl-Trna (Gln) Amidotransferase Subunit A, Mitochondrial (gatA) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamyl-tRNA (Gln) amidotransferase subunit A, mitochondrial (gatA), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Glutamyl-tRNA (Gln) amidotransferase subunit A, mitochondrial (gatA), partial
Product Gene Name	gatA recombinant protein
Product Synonym Gene Name	gatA
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	55,819 Da
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 Q9VE09
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gatA recombinant protein	MBS1340083 is a recombinant protein targeting gatA. Also known as Recombinant Drosophila melanogaster Glutamyl-tRNA (Gln) amidotransferase subunit A, mitochondrial (gatA), partial. 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 #	24648113
NCBI GeneID	42283
NCBI Accession #	NP_650775.2
UniProt Primary Accession #	Q9VE09
UniProt Secondary Accession #	Q95R50; Q9U9C8
UniProt Related Accession #	Q9VE09
GenBank Nucleotide #	NM_142518.4

NCBI Official Full Name	Glutamyl-tRNA amidotransferase, subunit A
NCBI Official Synonym Full Names	Glutamyl-tRNA amidotransferase, subunit A
NCBI Official Symbol	GatA
NCBI Official Synonym Symbols	0929/02; bene; benedict; CG6007; DmelCG6007; gatA; l(3)S092902
UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit A, mitochondrial
Protein Family	Glutamyl-tRNA(Gln) amidotransferase
UniProt Gene Name	gatA
UniProt Synonym Gene Names	Glu-AdT subunit A
NCBI Protein Information	CG6007 gene product from transcript CG6007-RA
UniProt Comments for gatA	Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu-tRNA(Gln).
Research Articles on gatA	**1.** gatA expression is required cell autonomously for normal growth. The gatA gene is widely expressed in mitotic and endoreplicating tissues.
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