Glutamate-Ammonia-Ligase Adenylyltransferase (glnE) Bradyrhizobium Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate-ammonia-ligase adenylyltransferase (glnE), Recombinant Protein
Full Product Name	Recombinant Bradyrhizobium sp. Glutamate-ammonia-ligase adenylyltransferase (glnE), partial
Product Gene Name	glnE recombinant protein
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	109,423 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 A4YRN0
Species	Bradyrhizobium sp. (strain ORS278)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glnE recombinant protein	MBS1258436 is a recombinant protein targeting glnE. Also known as Recombinant Bradyrhizobium sp. Glutamate-ammonia-ligase adenylyltransferase (glnE), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glnE 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 glnE. It may not necessarily be applicable to this product.

NCBI GI #	500306030
NCBI Accession #	WP_011925761.1
UniProt Primary Accession #	A4YRN0
GenBank Nucleotide #	WP_011925761.1
NCBI Official Full Name	glutamine-synthetase adenylyltransferase
UniProt Protein Name	Bifunctional glutamine synthetase adenylyltransferase/adenylyl-removing enzyme
UniProt Synonym Protein Names	Adenylyl transferase
Protein Family	Glutamate-ammonia-ligase adenylyltransferase
UniProt Gene Name	glnE

UniProt Synonym Gene Names	AR; AT-N; AT; AT-C
UniProt Comments for glnE	Involved in the regulation of glutamine synthetase GlnA, a key enzyme in the process to assimilate ammonia. When cellular nitrogen levels are high, the C-terminal adenylyl transferase (AT) inactivates GlnA by covalent transfer of an adenylyl group from ATP to specific tyrosine residue of GlnA, thus reducing its activity. Conversely, when nitrogen levels are low, the N-terminal adenylyl removase (AR) activates GlnA by removing the adenylyl group by phosphorolysis, increasing its activity. The regulatory region of GlnE binds the signal transduction protein PII (GlnB) which indicates the nitrogen status of the cell.
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