Glutamine Synthetase (glnA) Staphylococcus Epidermidis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamine synthetase (glnA), Recombinant Protein
Full Product Name	Recombinant Staphylococcus epidermidis Glutamine synthetase (glnA)
Product Gene Name	glnA recombinant protein
Product Synonym Gene Name	glnA
Sequence	MPKRSFTKDD IRKFAEEENV RYLRLQFTDI LGTIKNVEVP VSQLEKVLDN EMMFDGSSIE GFVRIEESDM YLHPDLDTWV IFPWTAGQGK VARLICDVFK TDGTPFEGDP RANLKRVLRR MEDMGFTDFN LGPEPEFFLF KLDEKGEPTL ELNDDGGYFD LAPTDLGENC RRDIVLELED MGFDIEASHH EVAPGQHEID FKYADAVTAC DNIQTFKLVV KTIARKHNLH ATFMPKPLFG VNGSGMHFNV SLFKGKENAF FDPEGDLQLT DTAYQFTAGV LKNARGFTAV CNPIVNSYKR LVPGYEAPCY IAWSGKNRSP LVRVPTSRGL STRIEVRSVD PAANPYMALA AILEAGLDGI ENKLEVPEPV NQNIYEMNRE EREAVGIQDL PSTLYTALKA MRENKSIKNA LGNHIYNQFI NSKSIEWDYY RTQVSEWERE QYIKQY
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	50,851 Da
Sequence Positions	1-446, 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 Q5HPN2
Species	Staphylococcus epidermidis (strain 35984 / RP62A)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glnA recombinant protein	MBS1330889 is a recombinant protein targeting glnA. Also known as Recombinant Staphylococcus epidermidis Glutamine synthetase (glnA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of glnA 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 glnA. It may not necessarily be applicable to this product.

NCBI GI #	487747354
NCBI Accession #	WP_001829492.1
UniProt Primary Accession #	Q5HPN2
GenBank Nucleotide #	WP_001829492.1

NCBI Official Full Name	MULTISPECIES: glutamine synthetase
UniProt Protein Name	Glutamine synthetase
UniProt Synonym Protein Names	Glutamate--ammonia ligase
Protein Family	Probable glutamine synthetase
UniProt Gene Name	glnA
UniProt Synonym Gene Names	GSI alpha
UniProt Comments for glnA	Glutamine synthetase (GS) is an unusual multitasking protein that functions as an enzyme, a transcription coregulator, and a chaperone in ammonium assimilation and in the regulation of genes involved in nitrogen metabolism. It catalyzes the ATP-dependent biosynthesis of glutamine from glutamate and ammonia. Feedback-inhibited GlnA also interacts with and regulates the activity of the transcriptional regulator TnrA. During nitrogen limitation, TnrA is in its DNA-binding active state and turns on the transcription of genes required for nitrogen assimilation. Under conditions of nitrogen excess, feedback-inhibited GlnA forms a stable complex with TnrA, which inhibits its DNA-binding activity. In contrast, feedback-inhibited GlnA acts as a chaperone to stabilize the DNA-binding activity of GlnR, which represses the transcription of nitrogen assimilation genes.
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