N-Acetylmuramoyl-L-Alanine Amidase Amia (amiA) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	N-acetylmuramoyl-L-alanine amidase AmiA (amiA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli N-acetylmuramoyl-L-alanine amidase AmiA (amiA)
Product Gene Name	amiA recombinant protein
Sequence	KDELLKTSNG HSKPKAKKSG GKRVVVLDPG HGGIDTGAIG RNGSKEKHVV LAIAKNVRSI LRNHGIDARL TRSGDTFIPL YDRVEIAHKH GADLFMSIHA DGFTNPKAAG ASVFALSNRG ASSAMAKYLS ERENRADEVA GKKATDKDHL LQQVLFDLVQ TDTIKNSLTL GSHILKKIKP VHKLHSRNTE QAAFVVLKSP SVPSVLVETS FITNPEEERL LGTAAFRQKI ATAIAEGVIS YFHWFDNQKA HSKKR
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	31,412 Da
Sequence Positions	35-289, 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 P36548
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for amiA recombinant protein	MBS1225751 is a recombinant protein targeting amiA. Also known as Recombinant Escherichia coli N-acetylmuramoyl-L-alanine amidase AmiA (amiA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of amiA 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 amiA. It may not necessarily be applicable to this product.

NCBI GI #	16130360
NCBI GeneID	946916
NCBI Accession #	NP_416930.1
UniProt Primary Accession #	P36548
UniProt Secondary Accession #	P78199
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	N-acetylmuramoyl-l-alanine amidase I
NCBI Official Symbol	amiA
NCBI Official Synonym Symbols	ECK2430; JW2428; yfeE
UniProt Protein Name	N-acetylmuramoyl-L-alanine amidase AmiA
Protein Family	N-acetylmuramoyl-L-alanine amidase
UniProt Gene Name	amiA
UniProt Synonym Gene Names	yfeE
NCBI Protein Information	N-acetylmuramoyl-l-alanine amidase I
NCBI Summary for amiA	Verified Tat substrate: [More information is available at EcoGene: EG11823]. Escherichia coli contains three N-acetylmuramyl-L-alanine amidases named AmiA, B, and C involved in cell division by splitting the murein septum. [More information is available at EcoCyc: EG11823].
UniProt Comments for amiA	Cell-wall hydrolase involved in septum cleavage during cell division. Can also act as powerful autolysin in the presence of murein synthesis inhibitors.
Research Articles on amiA	**1.** AmiA is a zinc metalloprotease that requires at least a tetrasaccharide glycopeptide substrate for cleavage.
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