Anhydro-N-Acetylmuramic Acid Kinase (anmK) Bacillus Cereus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Anhydro-N-acetylmuramic acid kinase (anmK), Recombinant Protein
Full Product Name	Recombinant Bacillus cereus Anhydro-N-acetylmuramic acid kinase (anmK)
Product Gene Name	anmK recombinant protein
Sequence	MYIAGVMSGT SLDGIDVALV RIEGSGVESK VELIHFTTVP FCNDIKSEIQ QALSIENSNV QLICSLNFKL GLCFANAVKE VCKEANFSLE QLDLIGSHGQ TIYHQPKQDG NRIPSTLQIG EPAVIAYETN TTVISNFRTM DMAAGGQGAP LVPYSEVILY RDPSKNRLLQ NIGGISNVTV IPNQQSDQNV IAFDTGPGNM IIDEVCQRLF QLSYDQNGEI AKQGRVVDEI LTYCMSHPFL KMNPPKSTGR EQFGEKFASE LLKRFEKHSK ENILTTVTMF TANSIVHHYK KFILPYYEID EVILGGGGSY NSTLVEMLRN GLKDENCAIF IQEDIGYSSE AKEAIAFAIL ANETHHCNPS NVPSATGAKQ SVVLGNITFP PV
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	41,965 Da
Sequence Positions	1-382, Full length
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 B7JNT4
Species	Bacillus cereus (strain AH820)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anmK recombinant protein	MBS1255748 is a recombinant protein targeting anmK. Also known as Recombinant Bacillus cereus Anhydro-N-acetylmuramic acid kinase (anmK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of anmK 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 anmK. It may not necessarily be applicable to this product.

NCBI GI #	446197141
NCBI Accession #	WP_000274996.1
UniProt Primary Accession #	B7JNT4
GenBank Nucleotide #	WP_000274996.1
NCBI Official Full Name	anhydro-N-acetylmuramic acid kinase

UniProt Protein Name	Anhydro-N-acetylmuramic acid kinase
UniProt Synonym Protein Names	AnhMurNAc kinase
Protein Family	Anhydro-N-acetylmuramic acid kinase
UniProt Gene Name	anmK
UniProt Comments for anmK	Catalyzes the specific phosphorylation of 1,6-anhydro-N-acetylmuramic acid (anhMurNAc) with the simultaneous cleavage of the 1,6-anhydro ring, generating MurNAc-6-P. Is required for the utilization of anhMurNAc either imported from the medium or derived from its own cell wall murein, and thus plays a role in cell wall recycling.
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