Anhydro-N-Acetylmuramic Acid Kinase (anmK) Streptomyces Coelicolor Recombinant Protein

PRODUCT OVERVIEW

Product Name	Anhydro-N-acetylmuramic acid kinase (anmK), Recombinant Protein
Full Product Name	Recombinant Streptomyces coelicolor Anhydro-N-acetylmuramic acid kinase (anmK)
Product Gene Name	anmK recombinant protein
Product Synonym Gene Name	anmK
Sequence	MRVIGLMSGT SYDAVEAAAA DLELEGEALV MRPLGHLSAP YPDGLRDLIA DSLPPAAATV RTVARLDTGI GQAFADVAVR AVRELCGGAA GLVVSHGQTL YHWVEDGAVR GTLQLGQPAW IAEATGLPVV SDLRGRDVAA GGQGAPLVAM TDVLAMAALP GVPAALNLGG IANVTVVAPG AEPLAFDTGP ANALMDAAVR HFTGGAAAFD EDGRRAGAGR VDPGLLRVLL DDPYYGRPAP KSTGKEQFHL PYLLAALAAA PVAEPDDVLA TLARLTAVTV ADACRAHGVT RLVVSGGGAR NPVLMGMIAE ELPGVDLGSS DALGLPSDAK EALAFALLGF LTVNGLPGAI PSGTGARRAS LLGSITPGRE PLRLPEPAGE PPRVLRVVGG P
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	39,498 Da
Sequence Positions	1-391, 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 Q9EWI9
Species	Streptomyces coelicolor (strain BAA-471 / A3(2) / M145)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anmK recombinant protein	MBS1332717 is a recombinant protein targeting anmK. Also known as Recombinant Streptomyces coelicolor 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 #	21225858
NCBI GeneID	1103033
NCBI Accession #	NP_631637.1

UniProt Primary Accession #	Q9EWI9
UniProt Related Accession #	Q9EWI9
GenBank Nucleotide #	NC_003888.3
NCBI Official Full Name	anhydro-N-acetylmuramic acid kinase
NCBI Official Symbol	anmK
NCBI Official Synonym Symbols	ydhH
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
NCBI Protein Information	anhydro-N-acetylmuramic acid kinase
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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