Anhydro-N-Acetylmuramic Acid Kinase (anmK) Rhodoferax Ferrireducens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Anhydro-N-acetylmuramic acid kinase (anmK), Recombinant Protein
Full Product Name	Recombinant Rhodoferax ferrireducens Anhydro-N-acetylmuramic acid kinase (anmK)
Product Gene Name	anmK recombinant protein
Product Synonym Gene Name	anmK
Sequence	MSDLYIGLMS GTSLDGVDGV VVDFSGAHLR VLAHVNAPLS TALTHELLAL NSPGTNELHR AALAANALVR VYAHVVAQLL ELADIEHSAV AAIGAHGQTV RHQPQSFDGT GYTLQLNNPA LLAELTGMDV VADFRSRDVA AGGQGAPLVP AFHQSAFGQP DQTLAVLNLG GMSNLTVLGP CPATESPAGV LDADPPSCFH SHDVLGFDCG PGNALMDTWC LQHIGQPFDA DGAWAAAGRV HGELLAALLD EPYFAQSAPK STGRDLFNSG WLTWKLEKFS SVAPVDVQAT LTELTASVCA TCVKRYGSES STLIVCGGGA FNSHLMVRLQ ALLPRLKVIS SQARGLPPLQ VEAAAFAWLA RNTLLRKTSS LEKVTGASGA RILGAIYPA
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	40,638 Da
Sequence Positions	1-389, 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 Q220S7
Species	Rhodoferax ferrireducens (strain DSM 15236 / BAA-621 / T118)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anmK recombinant protein	MBS1332104 is a recombinant protein targeting anmK. Also known as Recombinant Rhodoferax ferrireducens 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 #	115311283
NCBI Accession #	Q220S7.1
UniProt Primary Accession #	Q220S7

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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