Adenylate Kinase, Chloroplastic (ADK1) Zea Mays Recombinant Protein

PRODUCT OVERVIEW

Product Name	Adenylate kinase, chloroplastic (ADK1), Recombinant Protein
Full Product Name	Recombinant Zea mays Adenylate kinase, chloroplastic (ADK1)
Product Gene Name	ADK1 recombinant protein
Sequence	ALADPLKVMI SGAPASGKGT QCELIKTKYQ LAHISAGDLL RAEIAAGSEN GKRAKEFMEK GQLVPDEIVV NMVKERLRQP DAQENGWLLD GYPRSYSQAM ALETLEIRPD TFILLDVPDE LLVERVVGRR LDPVTGKIYH LKYSPPENEE IASRLTQRFD DTEEKVKLRL ETYYQNIESL LSTYENIIVK VQGDATVDAV FAKIDELLGS ILEKKNEMVS ST
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	24,867 Da
Sequence Positions	1-222, 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 P43188
Species	Zea mays (Maize)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADK1 recombinant protein	MBS1155055 is a recombinant protein targeting ADK1. Also known as Recombinant Zea mays Adenylate kinase, chloroplastic (ADK1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ADK1 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 ADK1. It may not necessarily be applicable to this product.

NCBI GI #	1170606
NCBI Accession #	P43188.1
UniProt Primary Accession #	P43188
NCBI Official Full Name	Adenylate kinase, chloroplastic
UniProt Protein Name	Adenylate kinase, chloroplastic
UniProt Synonym Protein Names	ATP-AMP transphosphorylase; ATP:AMP phosphotransferase; Adenylate monophosphate kinase

Protein Family	Adenosine kinase
UniProt Gene Name	ADK1
UniProt Synonym Gene Names	AK
UniProt Comments for ADK1	Catalyzes the reversible transfer of the terminal phosphate group between ATP and AMP. Plays an important role in cellular energy homeostasis and in adenine nucleotide metabolism. The maize enzyme also works with CMP, albeit with 10% of the activity with AMP.
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