Isocitrate Dehydrogenase Kinase/Phosphatase (aceK) Pseudomonas Fluorescens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Isocitrate dehydrogenase kinase/phosphatase (aceK), Recombinant Protein
Full Product Name	Recombinant Pseudomonas fluorescens Isocitrate dehydrogenase kinase/phosphatase (aceK), partial
Product Gene Name	aceK recombinant protein
Product Synonym Gene Name	aceK
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	66,095 Da
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 Q4KGH6
Species	Pseudomonas fluorescens (strain Pf-5 / BAA-477)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aceK recombinant protein	MBS1281663 is a recombinant protein targeting aceK. Also known as Recombinant Pseudomonas fluorescens Isocitrate dehydrogenase kinase/phosphatase (aceK), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of aceK 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 aceK. It may not necessarily be applicable to this product.

NCBI GI #	499372290
NCBI Accession #	WP_011059868.1
UniProt Primary Accession #	Q4KGH6
GenBank Nucleotide #	WP_011059868.1
NCBI Official Full Name	MULTISPECIES: bifunctional isocitrate dehydrogenase kinase/phosphatase
UniProt Protein Name	Isocitrate dehydrogenase kinase/phosphatase
Protein Family	Isocitrate dehydrogenase kinase/phosphatase
UniProt Gene Name	aceK

UniProt Synonym Gene Names	IDH kinase/phosphatase; IDHK/P
UniProt Comments for aceK	Bifunctional enzyme which can phosphorylate or dephosphorylate isocitrate dehydrogenase (IDH) on a specific serine residue. This is a regulatory mechanism which enables bacteria to bypass the Krebs cycle via the glyoxylate shunt in response to the source of carbon. When bacteria are grown on glucose, IDH is fully active and unphosphorylated, but when grown on acetate or ethanol, the activity of IDH declines drastically concomitant with its phosphorylation.
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