
Product Data Sheet

Product Name: ACKA E.Coli
 Cat. No.: GP22407
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Acetate kinase; Acetokinase; ackA; ack; ACKA; Acetate kinase A and propionate kinase 2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSSKLVL VLNCGSSSLK FAIDAVNGE EYLSGLAECF HLPEARIKWK MDGNKQEAAL GAGAAHSEAL NFIVNTILAQ KPELSAQLTA IGHRIVHGGE KYTSSVIDE SVIQGIKDA SFAPLHNPAAH LIGIEEALKS FPQLKDKNVA VFDTAFHQTM PEESYLYALP YNLYKEHGIR RYGAHGTSHF YVTQEAAKML NKPVEELNII TCHLGNGGSV SAIRNGKCV TSMGLTPLEG LVMGTRSGDI DPAIIFHLHD TLGMSVDAIN KLLTKESGLL GLTEVTSDCR YVEDNYATKE DAKRAMDVYC HRLAKYIGAY TALMDGRLDA VVFTGGIGEN AAMVRELSLG KLGVLGFEVD HERNLAARFG KSGFINKEGT RPAVVIPTNE ELVIAQDASR LTA.		
Formulation	ACKA protein (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

E.Coli Acetate Kinase, also known as ACKA, catalyzes the formation of acetylphosphate from acetate and ATP and also catalyzes the reverse reaction. ACKA takes part in synthesis of various ATP formed catabolically during anaerobic growth of the organism.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant ACKA produced in E.coli is a single, non-glycosylated polypeptide chain

Caution: Product has not been fully validated for medical applications. For research use only.

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containing 423 amino acids (1-400) and having a molecular mass of 45.7 kDa. The ACKA is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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