

Recombinant E.coli acetate kinase A and propionate kinase 2, His-tagged

Cat. No. ackA-621E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ackA, 1-400aa, E.coli, His tag, E.coli
Species	E.coli
Source	E.coli
ProteinLength	1-400 a.a.
Description	ackA catalyzes the formation of acetyl phosphate from acetate and ATP. This protein can also catalyze the reverse reaction. During anaerobic growth of the organism, this enzyme is also involved in the synthesis of most of the ATP formed catabolically. Recombinant E.coli ackA protein, fused to His-tag at N-terminus, was expressed in E.coli
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	45.7kDa (423aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSSKLVL VLNCGSSSLK FAIDAVNGE EYLSGLAECF HLPEARIKWK MDGNKQEAAL GAGAAHSEAL NFIVNTILAQ KPELSAQLTA IGHRIVHGGE KYTSSVVIDE SVIQGIKDAA SFAPLHNPAAH LIGIEEALKS FPQLKDKNVA VFDTAFHQTM PEESYLYALP YNLYKEHGIR RYGAHGTSHF YVTQEAAKML NKPVEELNII TCHLGNGGSV SAIRNGKCVD

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TSMGLTPLEG LVMGTRSGDI DPAIIFHLHD TLGMSVDAIN KLLTKESGLL
 GLTEVTSDCR YVEDNYATKE DAKRAMDVYC HRLAKYIGAY TALMDGRLDA
 VVFTGGIGEN AAMVRELSLG KLGVLGFEVD HERNLAARFG KSGFINKEGT
 RPAVVIPTNE ELVIAQDASR LTA

Purity >95% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ackA?acetate kinase A and propionate kinase 2 \[?Escherichia coli str. K-12 substr. MG1655?\]](#)

Official Symbol [ackA](#)

Synonyms [ackA](#); [ECK2290](#); [JW2293](#); acetate kinase A and propionate kinase 2; [NP_416799.1](#); EC 2.7.2.-; EC 2.7.2.1; acetate kinase

Gene ID [946775](#)

Protein Refseq [NP_416799](#)

Pathway Carbon metabolism; Metabolic pathways; Microbial metabolism in diverse environments

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