

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

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

## SPECIFICATION

<b>Product Overview</b>	ackA, 1-400aa, E.coli, His tag, E.coli
<b>Species</b>	E.coli
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-400 a.a.
<b>Description</b>	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
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
<b>Molecular Mass</b>	45.7kDa (423aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMSSKLVL VLNCGSSSLK FAIDAVNGE EYLSGLAECF HLPEARIKWK MDGNKQEAAL GAGAAHSEAL NFIVNTILAQ KPELSAQLTA IGHRIVHGGE KYTSSVVIDE SVIQGIKDA SFAPLHNP LIGIEEALKS FPQLKDKNVA VFDTAFHQTM PEESYLYALP YNLYKEHGIR RYGAHGTS HF 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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