

Recombinant e.coli ackA protein

Catalog Number: ATGP2844

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-400aa

UniProt No.

P0A6A3

NCBI Accession No.

NP_416799

Alternative Names

Acetate kinase A and propionate kinase 2, ECK2290, JW2293

PRODUCT SPECIFICATION

Molecular Weight

45.7 kDa (423aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMSKLV LNLGSSSLK FAIDAVNGE EYLSGLAECF HLPEARIKWK MDGNKQEAL

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GAGAAHSEAL NFIVNTILAQ KPESLAQLTA IGHRIVHGGE KYTSSVVIDE SVIQGIKDA SFAPLHNP AH LIGIEEALKS
FPQLKDKNVA VFDTA FHQTM PEESYLYALP YNLYKEHGIR RYGAHGTSHF YVTQEAAKML NKPVEELNII TCHLGNGGGSV
SAIRNGKCVD TSMGLTPLEG LVMGTRSGDI DP AII FHLHD TLGMSVDAIN KLLTKESGLL GLTEVTSDCR YVEDNYATKE
DAKRAMDVYC HRLAKYIGAY TALMDGRLDA VVFTGGIGEN AAMVRELSLG KLGVLGFEVD HERNLAARFG KSGFINKEGT
RPAVVIPTNE ELVIAQDASR LTA

General References

Blattner, F.R., et al. (1997) Science 277 (5331), 1453-1462.

Riley, M., et al. (2006) Nucleic Acids Res. 34 (1), 1-9

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.