

Recombinant e.coli coaA protein

Catalog Number: ATGP1395

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-316aa

UniProt No.

P0A6I3

NCBI Accession No.

NP_418405

Alternative Names

pantothenate kinase, panK, rts, ts-9

PRODUCT SPECIFICATION

Molecular Weight

38.9 kDa (340aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

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

coaA (pantothenate kinase) belongs to the prokaryotic pantothenate kinase family. Pantothenate kinase (PanK; CoaA) is the first enzyme in the Coenzyme A biosynthetic pathway. It phosphorylates pantothenate (vitamin B5) to form 4'-phosphopantothenate. Regulation of pantothenate kinase activity by feedback inhibition is the critical factor controlling the intracellular CoA concentration. Recombinant E. coli coaA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHMSEIQ TLMTPYLQFD RNQWAALRDS VPMTLSEDEI ARLKGINEDL SLEEVAEIYL
PLSRLNFIYI SSNLRRQAVL EQFLGTNGQR IPYIISIAGS VAVGKSTTAR VLQALLSRWP EHRRVELITT DGFLHPNQVL
KERGLMKKKG FPESYDMHRL VKFVSDLKSG VPNVTAPVYS HLIYDVIPDG DKTVVQPDIL ILEGLNVLQS GMDYPHDPHH
VFVSDVFDFS IYVDAPEDLL QTWYINRFLK FREGAFTDPD SYFHNYAKLT KEEAIKTAMT LWKEINWLNL KQNILPTRER
ASLILTKSAN HAVEEVRLRK

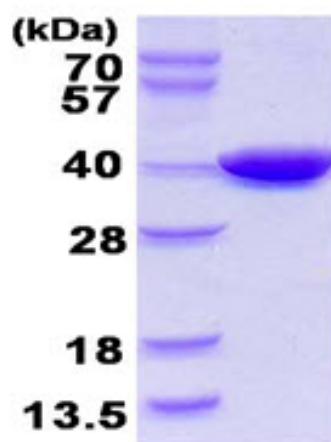
General References

Song W.-J., et al. (1992) J.Bacteriol. 174:6411-6417

Song W.-J., et al. (1992) J.Bacteriol. 174:1705-1706

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)