

Product information

coaA, 1-316aa

E.coli, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1395

Full name: pantothenate kinase

NCBI Accession No.: NP_418405

Synonyms: panK, rts, ts-9

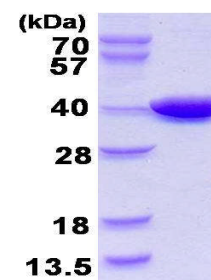
Description: coaA (pantothenate kinase) belongs to the prokaryotic pantothenate kinase family. Pantothenate kinase (PanK; CoaA) is the first enzyme in the Coenzyme A biosynthetic pathway. It phosphorylates pantothenate (vitamin B₅) to form 4'-phosphopantothenate. Regulation of pantothenate kinase activity 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.

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

Molecular Weight: 38.9kDa (340aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSHMSIKEQ TLMPYQLQFD RNQWAALRDS VPMTLSEDEI ARLKGINEDL SLEEVAEIYL PLSRLLNFYI
SSNLRRQAVL EQFLGTNGQR IPYIISIAGS VAVGKSTTAR VLQALLSRWP EHRRVELITT DGFLHPNQVL KERGLMKKKG FPESYDMHRL
VKFVSDLKSG VPNVTAPVYS HLIYDVIPDG DKTVVQPDIL ILEGLNVLQS GMDYPHDPHH VVSDVFDFS IYVDAPEDLL QTWYINRFLK
FREGAFTDPD SYFHNYAKLT KEEAIKTAMT LWKEINWNLN 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

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.