

AR50220PU-S

coaA (1-316, His-tag) - Purified

Alternate names:

panK, pantothenate kinase, rts, ts-9

Quantity:

0.1 mg

Concentration:

1mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P0A6I3](#)

NCBI:

[NP_418405.1](#)

GeneID:

[948479](#)

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

Description:

Recombinant E.coli coaA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMSIKEQ TLMTPYLQFD RNQWAALRDS VPMTLSEDEI
ARLKGINEDL SLEEVAEIYL PLSRLNFYI SSNLRRQAVL EQFLGTNGQR IPYIISIAGS
VAVGKSTTAR VLQALLSRWP EHRRVELITT DGFLHPNQVL KERGLMKKKG FPESYDMHRL
VKFVSDLKSG VPNVTAPVYS HLIYDVIPDG DKTVVQPDIL ILEGLNVLQS GMDYPHDPHH
VFVSDVFDFS IYVDAPEDLL QTWYINRFLK FREGAFTDPD SYFHNYAKLT KEEAIKTAMT
LWKEINWNL KQNILPTRER ASLILTKSAN HAVEEVRLRK

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

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

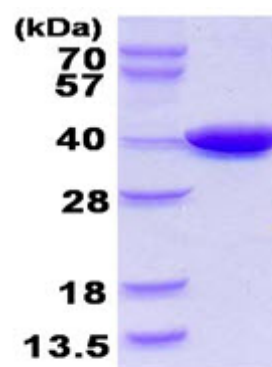
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Song W.-J., et al. (1992) J.Bacteriol. 174:6411-6417 Song W.-J., et al. (1992) J.Bacteriol. 174:1705-1706

Pictures:



15% SDS-PAGE (3ug)