

**coaA, 1-316aa, E.coli, His tag, E.coli**

**Cat.NO.: TP01677**

3th Edition

**Synonyms:**Pantothenate kinase, 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.

**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

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMSIKEQTLMTPYLQFDRNQWAALRDSVPMTLSEDEIARLKGINEDLSLEEV  
AEIYLPLSRLLNFYISSNLRRQAVLEQFLGTNGQRIPYIISIAGSVAVGKSTTARVLQALLSRWPEHRRVELITTDGFLH  
PNQVLKERGLMKKKGFPE SYDMHRLVKFVSDLKSGVPNVTAPVYSHLIYDVIPDGDKTVVQPDILILEGLNVLQSGM  
DYPHDPHHV FVSDFVDFSIYVDAPEDLLQTWYINRFLKFREGAFTDPDSYFHNYAKLTKEEAIKTAMTLWKEINWLN  
LKQNILPTRERASLILTKSANHAVEEVRLRK

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.