

PPCS, 1-311aa, Human, His tag, E.coli

Cat.NO.: TP03484

3th Edition

Synonyms: Phosphopantothenate--cysteine ligase, COAB, PPC synthetase

Description: PPCS, also known as phosphopantothenate--cysteine ligase, catalyzes the first step in the biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5), which is an essential universal pathway in prokaryotes and eukaryotes. PPCS, one of the last enzymes in this pathway, converts phosphopantothenate to phosphopantothenoylcysteine.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

Molecular Weight: 36.1 kDa (331aa) confirmed by MALDI-TOF

Sequences:

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MGSSHHHHHSSGLVPRGSHMAEMDPVAEFPQPPGAARWAEVMARFAARLGAQGRRVVLVTSGGTKVPLEARP
VRFLDNFSSGRRGATSAEFLAAGYGVLFLYRARSAPFYAHRFPQTWLSALRPSGPALSGLLSLEAEENALPGFA
EALRSYQEAAAAGTFLAVEFTTLADYLHLLQAAAQALNPLGPSAMFYLAAVSDFYVPVSEMPEHMKIQSSGGPLQIT
MKMVPKLLSPLVKDWAPKAFIISFKLETDPAlVINRARKALEIYQHQVVANILESRSQSFVIVTKDSETKLLLSEEEIEK
GVEIEEKIVDNLQSRHTAFIGDRN
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Purity: > 95% by HPLC

Concentration: 1 mg/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.