
Product Data Sheet

Product Name: COAA E.Coli
 Cat. No.: GP22472
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PanK; ts-9; rts.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSIKEQ TLMTPYLQFD RNQWAALRDS VPMTLSEDEI ARLKGINEDL SLEEVAEIYL PLSRLNFIYI SSNLRRQAVL EQFLGTNGQR IPYIISIAGS VAVGKSTTAR VLQALLSRWP EHRRVELITT DGFLHPNQVL KERGLMKKKG FPESYDMHRL VKFVSDLKSG VPNVTAPVYS HLIYDVIPDG DKTVVQPDIL ILEGLNVLQS GMDYPHDPHH VVSDVDFDFS IYVDAPEDLL QTWYINRFLK FREGAFTDPD SYFHNYAKLT KEEAIKTAMT LWKEINWLNL KQNILPTRER ASLILTKSAN HAVEEVRLRK.		
Formulation	The COAA solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 10% glycerol.		

Introduction

COAA is a member of the prokaryotic pantothenate kinase family and it is the first enzyme in the Coenzyme A biosynthetic pathway. COAA phosphorylates pantothenate (vitamin B5) to form 4'-phosphopantothenate. The key factor controlling the intracellular CoA concentration is the regulation of COAA activity by feedback inhibition.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

COAA E.Coli Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 340 amino acids (1-316) and having a molecular mass of 38.9kDa. COAA is fused to a 24 amino acid His-tag at N-terminus & purified by

Caution: Product has not been fully validated for medical applications. For research use only.

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proprietary chromatographic techniques.

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