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## Product Data Sheet

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Product Name: PPCDC Human  
 Cat. No.: GP22128  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	FLJ14585; PPC-DC; MDS018; COAC; CoaC; Phosphopantothenoylcysteine Decarboxylase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEPKASCPAA APLMERKFHV LVGVTGSVAA LKLPLLVSKL LDIPGLEVAV VTTERAKHFY SPQDIPVTLY SDADEWEMWK SRSDPVLHID LRRWADLLLV APLDANTLGK VASGICDNL TCVMRAWDRS KPLLFPCAMN TAMWEHPITA QQVDQLKAFG YVEIPCVAKK LVCGDEGLGA MAEVGTIVDK VKEVLFQHSG FQQS		
Formulation	The PPCDC protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer(pH 8.0), 1mM DTT, 0.1M NaCl and 10% glycerol.		

### Introduction

PPCDC is a member of the HFCD (homo oligomeric flavin containing Cys decarboxylase) superfamily which takes a part in the biosynthesis of coenzyme A (CoA) from pantothenate (Vitamin B). The biosynthesis of CoA from pantothenate needs several steps: the phosphorylation of pantothenate, the conversion of 4 $\alpha$ -phosphopantothenate to 4''-phosphopantetheine, the adenylation by phosphopantetheine adenylyltransferase to form dephospho-CoA and the phosphorylation by dephospho-CoA kinase to form CoA. PPCDC is a key player in this pathway. PPCDC converts 4''-phosphopantothenate into 4''-phosphopantetheine.

### 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. Please avoid freeze thaw cycles.

### Background

PPCDC produced in E.Coli is a single, non-glycosylated polypeptide chain containing 224

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

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amino acids (1-204a.a.) and having a molecular mass of 24.6kDa.PPCDC is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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