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# **Recombinant human PPCDC protein**

Catalog Number: ATGP0748

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-204aa

#### **UniProt No.**

096CD2

#### **NCBI Accession No.**

AAH14409

#### **Alternative Names**

Phosphopantothenoylcysteine decarboxylase, MDS018, PPC-DC, COAC, FLJ14585

# PRODUCT SPECIFICATION

### **Molecular Weight**

24.6 kDa (224aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

PPCDC belongs to the HFCD (homo oligomeric flavin containing Cys decarboxylase) superfamily that plays a role in the biosynthesis of coenzyme A (CoA) from pantothenate (Vitamin B). The biosynthesis of CoA from pantothenate requires several steps: the phosphorylation of pantothenate, the conversion of 4'-hosphopantothenate to 4'-phosphopantetheine, the adenylation by phosphopantetheine adenylyltransferase to form dephospho-CoA and the phosphorylation by dephospho-CoA kinase to form CoA. PPCDC plays a direct role in this pathway by converting 4'-phosphopantothenate into 4'-phosphopantetheine. Recombinant human PPCDC



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

# **Amino acid Sequence**

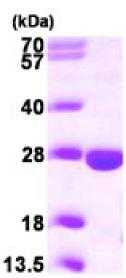
MGSSHHHHHH SSGLVPRGSH MEPKASCPAA APLMERKFHV LVGVTGSVAA LKLPLLVSKL LDIPGLEVAV VTTERAKHFY SPQDIPVTLY SDADEWEMWK SRSDPVLHID LRRWADLLLV APLDANTLGK VASGICDNLL TCVMRAWDRS KPLLFCPAMN TAMWEHPITA QQVDQLKAFG YVEIPCVAKK LVCGDEGLGA MAEVGTIVDK VKEVLFQHSG FQQS

## **General References**

Strauss E., et al. (2004) Biochemistry. 43(49):15520-33. Daugherty M., et al. (2002) J Biol Chem. 277(24):21431-9.

# **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

