

Recombinant human PPCDC protein

Catalog Number: ATGP0748

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-204aa

UniProt No.

Q96CD2

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'-phosphopantothenate 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

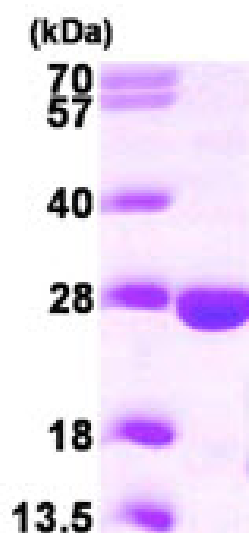
MGSSHHHHHH SGLVPRGSH MEPKASCPAA APLMERKFHV LVGVTGSVAA LKLPLLVSKL LDIPGLEVAV VTTERAKHFY
SPQDIPVTLY SDADEWEMWK SRSDPVLHID LRRWADLLL APLDANTLGK VASGICDNL TCMRAWDRS KPLLFPCAMN
TAMWEHPITA QQVDQLKAFG YVEIPCAKK LVCGDEGLGA MAEVGTIVDK VKEVLFQHSG FQQS

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



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

15% SDS-PAGE (3ug)