

Recombinant Human PPCDC, His-tagged

Cat. No. PPCDC-2841H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPCDC protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW =24.6 kDa (224aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MEPKASCPAA APLMERKFHV LVGVTGSVAA LKLPLLVS KL LDIPGLEVAV VTTERAKHFY SPQDIPVTLY SDADEWEMWK SRSDPVLHID LRRWADLLL APLDANTLGK VASGICDNL TCVMRAWDRS KPLLFCPAMN TAMWEHPITA QQVDQLKAFG YVEIPCVAKK LVCGDEGLGA MAEVGTIVDK VKEVLFQHSG FQQS
Purity	> 95 % by SDS – PAGE.

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Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl.
Concentration	1 mg/ml (determined by Bradford assay).
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.
GENE INFORMATION	
Gene Name	PPCDC phosphopantothenoylcysteine decarboxylase [Homo sapiens]
Synonyms	PPCDC; phosphopantothenoylcysteine decarboxylase; MDS018; FLJ14585; coaC; PPC-DC; EC 4.1.1.36
Gene ID	60490
mRNA Refseq	NM_021823
Protein Refseq	NP_068595
MIM	609854
UniProt ID	Q96CD2
Chromosome Location	15q24.2
Pathway	Metabolic pathways; Pantothenate and CoA biosynthesis
Function	lyase activity; phosphopantothenoylcysteine decarboxylase activity

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