

PPCDC Human

Description: PPCDC produced in E.Coli is a single, non-glycosylated polypeptide chain containing 224 amino acids (1-204 a.a.) and having a molecular mass of 24.6 kDa. PPCDC is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-018

For research use only.

Synonyms: FLJ14585, PPC-DC, MDS018, COAC, CoaC, Phosphopantothienylcysteine Decarboxylase.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MEPKASCPAA APLMERKFHV
LVGVTGSVAA LKLPLLVS KL LDIPGLEVAV VTTERAKHFY SPQDIPVTLY SDADEWEMWK
SRSDPVLHID LRRWADLLL APLDANTLGK VASGICDNL TCVMRAWDRS KPLLFCPAMN
TAMWEHPITA QQVDQLKAFG YVEIPCAVAK LVCGDEGLGA MAEVGTIVDK VKEVLFQHSG
FQQS

Purity: Greater than 95% as determined by SDS-PAGE.

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.

Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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-hosphopantothenate 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.

Storage:

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.

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