

PPCDC, 1-204aa, Human, His tag, E.coli

Cat.NO.: TP03483

3th Edition

Synonyms: Phosphopantothenoilcysteine decarboxylase, MDS018, PPC-DC, COAC, FLJ14585.

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.

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

Molecular Weight: 24.6 kDa (224aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMEPKASCPAAAPLMERKFHVLVGVGTGSVAALKLPLLVSKLLDIPGLEVAVVTTTERA
KHFYSPQDIPVTLYSDADEWEMWKSRSDPVLHIDLRRWADLLL VAPLDANTLGKVASGICDNLLTCVMRAWDRSK
PLLFCPAMNTAMWEHPITAQQVDQLKAFGYVEIPCVAKKLVCGDEGLGAMAEVGTIVDKVKEVLFQHSFGFQQS

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.