

Human PPC-DC / PPCDC Protein (His Tag)

Catalog Number: 14572-H07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

coaC; MDS018; PPC-DC; 1810057I13Rik; 8430432M10Rik

Protein Construction:

A DNA sequence encoding the mature form of human PPCDC (AAH14409.1) (Met1-Ser204) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human PPCDC consists of 219 amino acids and predicts a molecular mass of 24.3 KDa. It migrates as an approximately 24 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 15% Glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

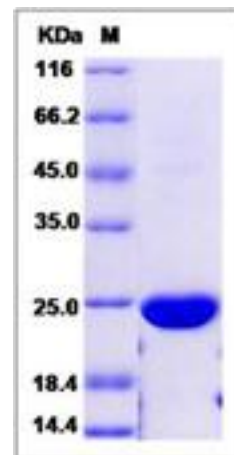
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

PPC-DC, also known as PPCDC, belongs to the HFCD (homo oligomeric flavin containing Cys decarboxylase) superfamily which takes a part in the biosynthesis of coenzyme A (CoA) from pantothenate (Vitamin B). Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. This process include several steps: the phosphorylation of pantothenate, the conversion of 4'-hosphopantothenate to 4"-phosphopantetheine, the adenylation by phosphopantetheine adenyltransferase to form dephospho-CoA and the phosphorylation by dephospho-CoA kinase to form CoA. PPC-DC, one of the last enzymes in this pathway, converts phosphopantothenoylcysteine to 4'-prime-phosphopantetheine.

References

- 1.Zody MC. et al., 2006, Nature. 440: 671-5.
- 2.Ota T. et al., 2004, Nat Genet. 36: 40-5.
- 3.Clark HF. et al., 2003, Genome Res. 13: 2265-70.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>