

## Recombinant Human PPCDC Protein (His Tag)

**Catalog Number: PKSH032896**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

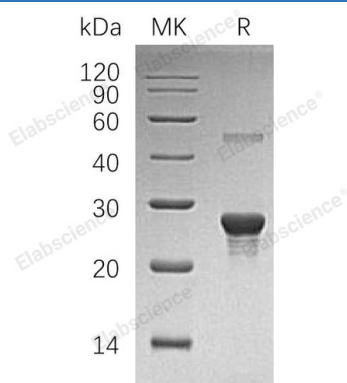
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human PPCDC protein Met 1-Ser204, with an N-terminal His
<b>Calculated MW</b>	24.6 kDa
<b>Observed MW</b>	27 kDa
<b>Accession</b>	Q96CD2
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 50mM NaCl, 1mM DTT, 10% Glycerol, pH 8.0.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Phosphopantothencysteine Decarboxylase (PPC-DC) is an essential enzyme in the biosynthesis of Coenzyme A and catalyzes the decarboxylation of PPC to Phosphopantetheine. PPC-DC catalyzes the decarboxylation of the Cysteine moiety of 4-Phosphopantothencysteine (PPC) to form 4-Phosphopantetheine (PPantSH), this reaction forms part of the biosynthesis of Coenzyme A. The enzyme is a member of the larger family of Cysteine Decarboxylases including the Antibiotic-Biosynthesizing enzymes EpiD and MrsD, all of which use a tightly bound Flavin cofactor to oxidize the Thiol moiety of the substrate to a Thioaldehyde.