

**Product Name: Recombinant Human PPC-DC (N-6His)**  
**Catalog #: PEH1357**

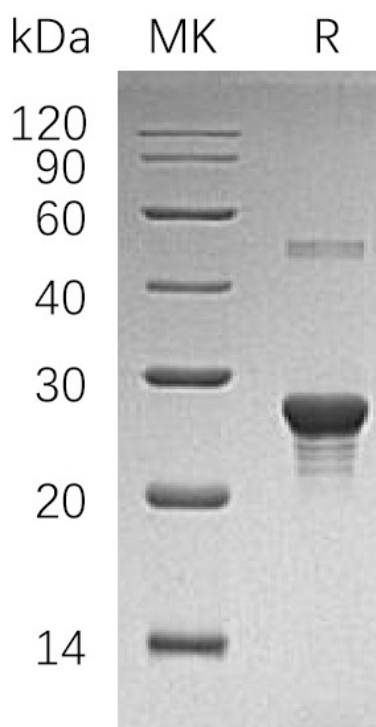


## Summary

|                                 |                                                                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                     | PPC-DC/COAC                                                                                                                                                                                   |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE                                                                                                                                           |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.                                                                                                                                                           |
| <b>Construction</b>             | Recombinant Human Phosphopantothencysteine Decarboxylase is produced by our E.coli expression system and the target gene encoding Met1-Ser204 is expressed with a 6His tag at the N-terminus. |
| <b>Accession #</b>              | Q96CD2                                                                                                                                                                                        |
| <b>Host</b>                     | E.coli                                                                                                                                                                                        |
| <b>Species</b>                  | Human                                                                                                                                                                                         |
| <b>Predicted Molecular Mass</b> | 24.6 KDa                                                                                                                                                                                      |
| <b>Formulation</b>              | Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 50mM NaCl, 1mM DTT, 10% Glycerol, pH 8.0.                                                                                            |
| <b>Shipping</b>                 | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.                                                                            |
| <b>Stability&amp;Storage</b>    | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.                          |
| <b>Reconstitution</b>           |                                                                                                                                                                                               |

## SDS-PAGE image

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### Alternative Names

Phosphopantothenoylcysteine Decarboxylase; PPC-DC; PPCDC; COAC

### Background

Phosphopantothenoylcysteine 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-Phosphopantothenoylcysteine (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 Lantibiotic-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.

### Note

For Research Use Only , Not for Diagnostic Use.