

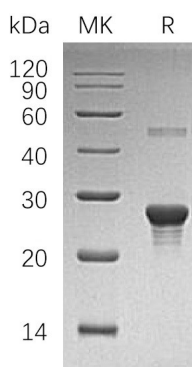
**Product Name: Recombinant Human PPC-DC (N-6His)**  
**Catalog #: PEH1357**



## 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 Phosphopantothencycysteine 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



## Background

**Alternative Names** Phosphopantothencycysteine Decarboxylase; PPC-DC; PPCDC; COAC

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**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.