

## PCBD1 Human

**Description:** PCBD1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 124 amino acids (1-104 a.a.) and having a molecular mass of 14.1kDa. PCBD1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-559

For research use only.

**Synonyms:** DCOH, PCBD, PCD, PHS.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MAGKAHRLSA EERDQLLPNL  
RAVGWNELEG RDAIFKQFHF KDFNRAFGFM TRVALQAEKL DHHPEWFNVYNKVHITLSTH  
ECAGLSERDI NLSFIEQVA VSMT.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The PCBD1 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH-8), 1mM DTT, and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

PCBD1 enzyme takes part in phenylalanine hydroxylation. PCBD1 deficiency results in hyperphenylalaninemia. PCBD1 enzyme controls the homodimerization of HNF1. PCBD1 takes part in tetrahydrobiopterin biosynthesis. PCBD1 prevents the formation of 7-pterins and accelerate the formation of quinoid-BH2. PCBD1 is a coactivator for HNF1A-dependent transcription.

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