

Recombinant Human PCBD1 Protein, His-tagged

Cat. No. PCBD1-763H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCBD1(Ala2-Thr104) fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-104 a.a.
Description	This gene encodes a member of the pterin-4-alpha-carbinolamine dehydratase family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein functions as both a dehydratase involved in tetrahydrobiopterin biosynthesis, and as a cofactor for HNF1A-dependent transcription. A deficiency of this enzyme leads to hyperphenylalaninemia. Alternative splicing results in multiple transcript variants.
Form	20mM Tris-HCl, 150mM NaCl, 1mM DTT, pH 8.0. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Molecular Mass	14.2 kDa
Endotoxin	< 0.1 EU per µg protein as determined by LAL test
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name PCBD1 pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha [Homo sapiens]

Official Symbol PCBD1

Synonyms PCBD1; pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha; 6 pyruvoyl tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) , DCOH, PCBD, pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1); pterin-4-alpha-carbinolamine dehydratase; dimerizing cofactor for HNF1; PCD; pterin 4 alpha carbinolamine dehydratase; Pterin 4a carbinolamine dehydratase (dimerization cofactor of hepatic nuclear factor 1 alpha); dimerization cofactor of HNF1; 4-alpha-hydroxy-tetrahydropterin dehydratase; phenylalanine hydroxylase-stimulating protein; 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1); PHS; DCOH; PCBD;

Gene ID 5092

mRNA Refseq NM_000281

Protein Refseq NP_000272

MIM 126090

UniProt ID P61457

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