

Recombinant Human PCBD1, His-tagged

Cat. No. PCBD1-30550TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PCBD1 protein with an N terminal His tag ; predicted mwt: 14.1 kDa.
Species	Human
Source	E.coli
ProteinLength	104 amino acids
Description	This gene encodes pterin-4 alpha-carbinolamine dehydratase, an enzyme involved in phenylalanine hydroxylation. A deficiency of this enzyme leads to hyperphenylalaninemia. The enzyme regulates the homodimerization of the transcription factor hepatocyte nuclear factor 1 (HNF1).
Conjugation	HIS
Molecular Weight	14.100kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated

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freeze / thaw cycles.

Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MAGKAHRLSA EERDQLLPNL RAVGWNELEG
RDAIFKQFHF KDFNRAFGFM TRVALQAEKL DHHPEWFENVY NKVHITLSTH
ECAGLSERDI NLASFIEQVA VSMT

Sequence Similarities

Belongs to the pterin-4-alpha-carbinolamine dehydratase family.

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

Gene ID

5092

mRNA Refseq

NM_000281

Protein Refseq

NP_000272

MIM

126090

Uniprot ID

P61457

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Chromosome Location	10q22
Pathway	Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Phenylalanine and tyrosine catabolism, organism-specific biosystem; phenylalanine degradation I (aerobic), conserved biosystem;
Function	4-alpha-hydroxytetrahydrobiopterin dehydratase activity; identical protein binding; lyase activity; phenylalanine 4-monooxygenase activity; protein binding;

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