Recombinant Human PCBD1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PCBD1-1908H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PCBD1 MS Standard C13 and N15-labeled recombinant protein (NP_000272) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	12 kDa
AA Sequence	MAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGFMTRVAL QAEKLDHHPEWFNVYNKVHITLSTHECAGLSERDINLASFIEQVAVSMTTRTRPLEQ KLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.

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Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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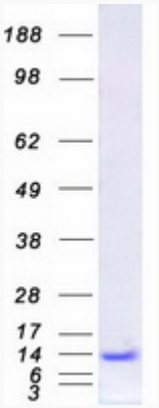
UniProt ID	P61457
SDS-PAGE	

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