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## Datasheet for ABIN1097328 PCBD1 Protein (AA 2-104) (His tag)

### Overview

Quantity:	50 µg
Target:	PCBD1
Protein Characteristics:	AA 2-104
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PCBD1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Pterin-4-α-Carbinolamine Dehydratase/PHS/PCBD1 (N-6His)
Sequence:	MGSSHHHHHH SSGLVPRGSH MAGKAHRLSA EERDQLLPNL RAVGWNELEG RDAIFKQFHF KDFNRAFGFM TRVALQAEKL DHHPEWFNVY NKVHITLSTH ECAGLSERDI NLASFIEQVA VSMT
Characteristics:	Recombinant Human Pterin-4-alpha-Carbinolamine Dehydratase/PCBD1 is produced by our E. coli expression system. The target protein is expressed with sequence (Ala2-Thr104) of Human PCBD1 fused with a His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

### Target Details

Target:	PCBD1
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## Target Details

Alternative Name:	PHS/PCBD1 ( <a href="#">PCBD1 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>Pterin-4-alpha-Carbinolamine Dehydratase (PCBD1) is the founding member of the Pterin-4-alpha-Carbinolamine Dehydratase Family. PCBD1 is involved in Tetrahydrobiopterin biosynthesis. It seems to prevent the formation of 7-Pterins and accelerate the formation of Quinonoid-BH2. Furthermore, PCBD1 regulates the homodimerization of the transcription factor Hepatocyte Nuclear Factor 1 (HNF1) and enhances its transcriptional activity. Defects in PCBD1 are the cause of BH4-Deficient Hyperphenylalaninemia Type D (HPABH4D). HPABH4D is characterized by the excretion of 7-substituted Pterins in the urine of affected patients.</p> <p>Alternative Names: Pterin-4-Alpha-Carbinolamine Dehydratase, PHS, 4-Alpha-Hydroxy-Tetrahydropterin Dehydratase, Dimerization Cofactor of Hepatocyte Nuclear Factor 1-Alpha, DCoH, Dimerization Cofactor of HNF1, Phenylalanine Hydroxylase-Stimulating Protein, Pterin Carbinolami</p>
Molecular Weight:	14.2 kDa
UniProt:	<a href="#">P61457</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 1 mM DTT, pH 8.0.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt.

Handling

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Please minimize freeze-thaw cycles.

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Expiry Date: 6 months