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Datasheet for ABIN7318971 PCBD1 Protein (His tag)

Overview

Quantity:	50 µg
Target:	PCBD1
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 PCBD1 Protein (His Tag)
Sequence:	Ala2-Thr104
Characteristics:	Recombinant Human Pterin-4- α -Carbinolamine Dehydratase is produced by our E.coli expression system and the target gene encoding Ala2-Thr104 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PCBD1
Alternative Name:	PCBD1 (PCBD1 Products)
Background:	Background: Pterin-4- α -Carbinolamine Dehydratase (PCBD1) is the founding member of the Pterin-4- α -Carbinolamine Dehydratase Family. PCBD1 is involved in Tetrahydrobiopterin

Target Details

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. Synonym: 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 Carbinolamine Dehydratase, PCD, PCBD1, DCOH, PCBD

Molecular Weight: 14.2 kDa

UniProt: [P61457](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 1 mM DTT, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.