

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

32-7224: Recombinant Human Pterin-4-a-Carbinolamine Dehydratase/PHS/PCBD1 (N-6His)

Gene ID: 5092 **Uniprot ID:** P61457

Description

Source: E.coli. MW:14.2kD.

Recombinant Human PCBD1 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. Pterin-4-a-Carbinolamine Dehydratase (PCBD1) is the founding member of the Pterin-4-a-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.

Product Info

Amount : $10 \mu g / 50 \mu g$

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

Storage condition: Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid: MGSSHHHHHHSSGLVPRGSHMAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGFMT

RVALQAEKLDHHPEWFNVYNKVHITLSTHECAGLSERDINLASFIEQVAVSMT

Application Note

Endotoxin : Less than 0.1 ng/ \tilde{A} \parallel \hat{A} μ g (1 IEU/ \tilde{A} \parallel \hat{A} μ g) as determined by LAL test.