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

Gene : PCBD1
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 µg / 50 µg
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 : MGSSHHHHHHSSGLVPRGSHMAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFN RAFGFMTRVALQAEKLDHHPEWFNVYNKVHITLSTHECAGLSERDINLASFIEQVAVSMT

Application Note

Endotoxin : Less than 0.1 ng/Âµg (1 IEU/Âµg) as determined by LAL test.