

PCBD1, 1-104aa, Human, His tag, E.coli

Cat.NO.: TP03301

3th Edition

Synonyms:Pterin-4-alpha-carbinolamine dehydratase, DCOH, PCBD, PCD, PHS.

Description:Pterin-4-alpha-carbinolamine dehydratase precursor, also known as PCBD1, is a component of the phenylalanine hydroxylase (PAH) system and participates in tetrahydrobiopterin biosynthesis. A deficiency of this enzyme leads to hyperphenylalaninemia. The enzyme regulates the homodimerization of the transcription factor hepatocyte nuclear factor 1 (HNF1).

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Molecular Weight:14.1 kDa (124aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGFMTRVA
LQAEKLDHHPWFNVYKVVHITLSTHECAGLSERDINLASFIEQVAVSMT

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.