Recombinant human PCBD1 protein

Catalog Number: ATGP0699

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-104aa

UniProt No.
P61457

NCBI Accession No.
NP_000272

Alternative Names
Pterin-4-alpha-carbinolamine dehydratase, DCOH, PCBD, PCD, PHS

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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). Recombinant human PCBD1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

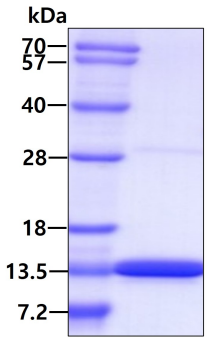
<MGSSHHHHHH SSGLVPRGSH> MAGKAHRLSA EERDQLLPNL RAVGWNELEG RDAIFKQFHF KDFNRAFGFM TRVALQAEKL DHHPEWFNVY NKVHITLSTH ECAGLSERDI NLASFIEQVA VSMT

General References

Schallreuter K u., et al. (2004) Biochem Biophys Res Commun. 315:502-508.
Hasse S., et al. (2005) Exp Dermatol. 14:182-187.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.