

AR09637PU-L

Human PCBD1 (1-104, His-tag) - Purified

Alternate names:

DCOH, Dimerization cofactor of HNF1, PCBD, PHS, Phenylalanine hydroxylase-stimulating protein, Pterin carbinolamine dehydratase, Pterin-4-alpha-carbinolamine dehydratase

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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).

Uniprot ID:

[P61457](#)

NCBI:

[NP_000272](#)

GeneID:

[5092](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Description:

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

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MAGKAHRLSA EERDQLLPNL RAVGWNELEG RDAIFKQFHF
KDFNRAFGFM TRVALQAEKL DHHPEWFNVY NKVHITLSTH ECAGLSERDI NLA SFIEQVA VSMT

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

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

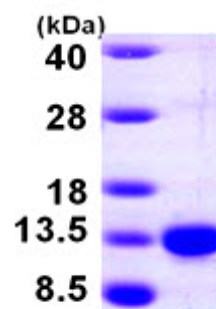
Shelf life: one year from despatch.

General Readings:

Schallreuter K U., et al. (2004) Biochem Biophys Res Commun. 315:502-508.

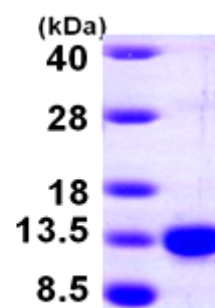
Hasse S., et al. (2005) Exp Dermatol. 14:182-187.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human PCBD1, 1- 104 aa,
His-tagged



15% SDS-PAGE (3ug)