

Product datasheet for **TP302880**

PCBD1 (NM_000281) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (PCBD1), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC202880 protein sequence
Red=Cloning site **Green**=Tags(s)

MAGKAHRLSAEERDQLLPNLRVGVWNELEGRDAIFKQFHFKDFNRAFGFMTRVALQAEKLDHHPWFVNVY
NKVHITLSTHECAGLSERDINLASFIEQVAVSMT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 11.8 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000272](#)

Locus ID: 5092

UniProt ID: [P61457](#)

RefSeq Size: 1019



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Cytogenetics: 10q22.1

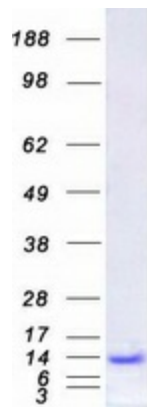
RefSeq ORF: 312

Synonyms: DCOH; PCBD; PCD; PHS

Summary: This gene encodes a member of the pterin-4-alpha-carbinolamine dehydratase family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein functions as both a dehydratase involved in tetrahydrobiopterin biosynthesis, and as a cofactor for HNF1A-dependent transcription. A deficiency of this enzyme leads to hyperphenylalaninemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified PCBD1 protein (Cat# TP302880). The protein was produced from HEK293T cells transfected with PCBD1 cDNA clone (Cat# [RC202880]) using MegaTran 2.0 (Cat# [TT210002]).