

Recombinant Human Peroxisomal D3,D2-enoyl-CoA Isomerase, His-tagged

Cat. No. Peci-0605H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human Peci protein, fused to his-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques. MW = 42.3 kDa (384aa).

Species

Human

Source

E.coli

Description

Peci, also referred to as DRS1, ACBD2 or HCA88, is a protein that localizes to the peroxisomal matrix and contains one ACB (acyl-CoA-binding) domain. This protein is expressed abundantly in liver, heart and skeletal muscle. It functions to catalyze the isomerization of both 3-cis and 3-trans double bonds into the 2-trans form in a range of enoyl-CoA species, playing an important role in the β -oxidation of unsaturated fatty acids.

Sequences Of Amino Acids

MGSSHHHHHH SGLVPRGSH MNRTAMRASQ KDFENSMNQV KLLKKDPGNE
VKLKLYALYK QATEGPCNMP KPGVFDLINK AKWDAWNALG SLPKEAARQN
YVDLVSSLSP SLESSSQVEP GTDRKSTGFE TLVVTSEDGI TKIMFNRPKK
KNAINTEMYH EIMRALKAAAS KDDSIITVLT GNGDYSSGN DLTNFTDIPP
GGVEEKAKNN AVLLREFVGC FIDFPKPLIA VVNGPAVGIS VTLLGLFDAV
YASDRATFHT PFSHLGQSPE GCSSYTFPKI MSPAKATEML IFGKKLTAGE
ACAQGLVTEV FPDSTFQKEV WTRLKAFACL PPNALRISKE VIRKREREKL
HAVNAEECNV LQGRWLSDEC TNAVVNFLSR KSKL

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Purity	> 95% by SDS – PAGE.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Concentration	1.0 mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	PECI peroxisomal D3,D2-enoyl-CoA isomerase [Homo sapiens]
Synonyms	PECI; peroxisomal D3,D2-enoyl-CoA isomerase; DRS1; ACBD2; HCA88; KIAA0536; dJ1013A10.3; peroxisomal 3,2-trans-enoyl-CoA isomerase ;DRS-1; OTTHUMP00000015976; DBI-related protein 1; dodecenoyl-CoA isomerase; D3,D2-enoyl-CoA isomerase; renal carcinoma antigen NY-REN-1; delta(3),delta(2)-enoyl-CoA isomerase; acyl-Coenzyme A binding domain containing 2; diazepam-binding inhibitor-related protein 1; hepatocellular carcinoma-associated antigen 88; EC 5.3.3.8; Peroxisomal 3,2-trans-enoyl-CoA isomerase;DRS-1
Gene ID	10455
mRNA Refseq	NM_001166010
Protein Refseq	NP_001159482
MIM	608024
UniProt ID	O75521

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**Chromosome
Location** 6p24.3

Pathway Fatty acid metabolism; PeroxisomeSee PECl in MapViewer

Function acyl-CoA binding; binding; dodecenoyl-CoA delta-isomerase activity; isomerase activity

**PDB rendering based
on 2cqu.**

