

Recombinant human PECl/ECI2 protein

Catalog Number: ATGP0605

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-364aa

UniProt No.

O75521

NCBI Accession No.

NP_006108

Alternative Names

Enoyl-CoA delta isomerase 2, D3,D2-enoil-CoA isomerase, Diazepam-binding inhibitor-related protein 1, DBI-related protein 1, Dodecenoyl-CoA isomerase, Hepatocellular carcinoma-associated antigen 88, Peroxisomal 3,2-trans-enoil-CoA isomerase, Renal carcinoma antigen NY-REN-1, ACBD2, DRS1, HCA88

PRODUCT SPECIFICATION

Molecular Weight

42.3 kDa (384aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 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

PECl, 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 beta-oxidation of unsaturated fatty acids.

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

Amino acid Sequence

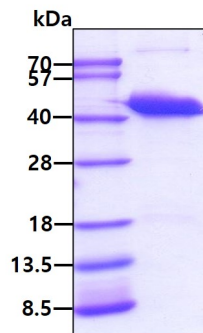
<MGSSHHHHHH SGLVPRGSH> MNRTAMRASQ KDFENSMNQV KLLKKDPGNE VKLKLYALYK QATEGPCNMP
KPGVFDLINK AKWDAWNALG SLPKEAARQN YVDLVSSLSP SLESSSQVEP GTDRKSTGFE TLVVTSEDGI TKIMFNRPKK
KNAINTEMYH EIMRALKAAAS KDDSIITVLT GNGDYSSGN DLTNFTDIPP GGVEEKAKNN AVLLREFVGC FIDFPKPLIA
VVNGPAVGIS VTLLGLFDAV YASDRATFHT PFSHLGQSPE GCSSYTFPKI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

General References

Dongyan Zhang, et al. (2002) J. Biol. Chem. 277: 9127-9132.

DATA

SDS-PAGE



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