

# Recombinant human DECR2 protein

Catalog Number: ATGP1330

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-292aa

### UniProt No.

Q9NUI1

### NCBI Accession No.

NP\_065715

### Alternative Names

Peroxisomal 24-dienoyl-CoA reductase, Peroxisomal 2,4-dienoyl-CoA reductase, PDCR, SDR17C1

## PRODUCT SPECIFICATION

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### Molecular Weight

33.2 kDa (315aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

### 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

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### Description

DECR2, also known as peroxisomal 2, 4-dienoyl-CoA reductase, is an auxiliary enzyme of beta-oxidation. DECR2 participates in the degradation of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd-numbered positions in peroxisome. This protein catalyzes the NADP-dependent reduction of 2, 4-dienoyl-CoA to yield trans-3-enoyl-CoA. Recombinant human DECR2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MAQPPPD VEGDDCLPAY RHLFCPDLLR DKVAFITGGG SGIGFRIAEI  
FMRHGCHTVI ASRSLPRVLT AARKLAGATG RRCLPLSMDV RAPPVMAAV DQALKEFGRI DILINCAAGN FLCPAGALSF  
NAFKTVMDID TSGTFNVS RV LYEKFFRDHG GVIVNITATL GNRGQALQVH AGSAKAAVDA MTRHLAVEWG PQNIRVNSLA  
PGPISGTEGL RRLGGPQASL STKV TASPLQ RLG NKTEIAH SVLYLASPLA SYVTGAVLVA DGGAWLTFFN GVKGLPDFAS  
FSAKL

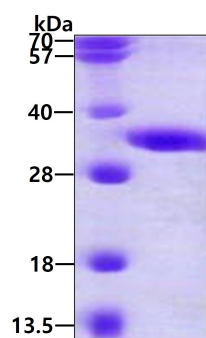
## General References

De Nys K., et al. (2001) *Biochim. Biophys. Acta.* 1533:66-72

Daniels R.J., et al. (2001) *Hum. Mol. Genet.* 10:339-352

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.