

Recombinant Human 2,4-Dienoyl CoA Reductase 2, Peroxisomal, His-tagged

Cat. No. DECR2-1330H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DECR2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 40% glycerol, 0.15 M NaCl.
Molecular Weight	33.2 kDa (315 aa) confirmed by MALDI-TOF
Purity	> 95 % by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMAPPPD VEGDDCLPAY RHLFCPDLLR DKVAFITGGG SGIGFRIAEI FMRHGCHTVI ASRSLPRVLT AARKLAGATG

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RRCLPLSMDV RAPPVMAAV DQALKEFGRI DILINCAAGN FLCPAGALSF
NAFKTVMDID TSGTFNVSRLV LYKFFRDHG GVIVNITATL GNRGQALQVH
AGSAKAAVDA MTRHLAVEWG PQNIRVNSLA PGPISGTEGL RRLGGPQASL
STKVTASPLQ RLGKTEIAH SVLYLASPLA SYVTGAVLVA DGGAWLTFFN
GVKGLPDFAS FSAKL

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.

Pathways

Peroxisome; fatty acid beta-oxidation IV

GENE INFORMATION

Gene Name

DEC2 2,4-dienoyl CoA reductase 2, peroxisomal [Homo sapiens]

Official Symbol

DEC2

Synonyms

DEC2; 2,4-dienoyl CoA reductase 2, peroxisomal; PDCR; SDR17C1; peroxisomal 2,4-dienoyl-CoA reductase; OTTHUMP00000045513; OTTHUMP00000067571; 2,4-dienoyl-CoA reductase 2; short chain dehydrogenase/reductase family 17C, member 1; EC 1.3.1.34

Gene ID

26063

mRNA Refseq

NM_020664

Protein Refseq

NP_065715

UniProt ID

Q9NUI1

Chromosome

16p13.3

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Location**Function**

2,4-dienoyl-CoA reductase (NADPH) activity; binding; oxidoreductase activity

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