

Recombinant Human DECR1, His-tagged

Cat. No. DECR1-972H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman DECR1 with his tag was expressed in E.coli and purified by conventional chromatography, 34.4 kDa(35 a.a. - 335 a.a.).
Species	Human
Source	E.coli
ProteinLength	35-335 a.a.
Description	This geneencodes an accessory enzyme which participates in the beta-oxidation andmetabolism of unsaturated fatty enoyl-CoA esters.
Amino Acid Sequence	MGSSHHHHHHSSGLVPRGSHMNTALQSKFFSPLQKAMLPPNSFQGKVAFITGGG TGLGKGMTTLLSSLGAQCVIASRKMDVLKATAEQISSQTGNK VHAIQCDVRDPDMV QNTVSELIKVAGHPNIVINNAAGNFISPTERLSPNAWKTITDIVLNGTAFVTLEIGKQLI KAQKGAAFLSITTIYAETGSGFVVPASAK AGVEAMSKSLAAEWGKYGMRFNVIQP GPIKTKGAFSRLDPTGTFEKEMIGRIPCRLGTVEELANLAAFLCSDYASWINGAVIK FDGGEEVLISGEFNDL RKVTKEQWDTIEELIRKTKGS
Form	Liquid
Concentration	1 mg/mL
Purity	> 90% by SDS-PAGE

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Applications	SDS-PAGE
StorageBuffer	In 20 mM Tris-HCl, pH 8.0(10% glycerol, 1 mM dithiothreitol)
Storage	Store at 4°C for 1-2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
OfficialSymbol	DECR1
GENE INFORMATION	
Gene Name	DECR1 2,4-dienoyl CoA reductase1, mitochondrial [Homo sapiens]
Synonyms	DECR1; DECR; NADPH; SDR18C1; 2,4-dienoyl CoA reductase 1, mitochondrial; 2,4-dienoyl-CoA reductase, mitochondrial; 4-enoyl-CoA reductase; short chain dehydrogenase/reductase family 18C, member 1; 4-enoyl-CoA reductase [NADPH]; EC1.3.1.34; 2,4-dienoyl-CoA reductase [NADPH]
Gene ID	1666
mRNA Refseq	NM_001359
Protein Refseq	NP_001350
MIM	222745
UniProt ID	Q16698
Chromosome Location	8q21.3
Pathway	Fatty Acid BetaOxidation; Fatty Acid Biosynthesis; Fatty acid

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Function

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

Crystallographic structure of a tetramer of the ternary complex of DECR1, hexanoyl-coenzyme A, and NADP.



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