2,4-Dienoyl-Coa Reductase, Mitochondrial (DECR1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	2,4-dienoyl-CoA reductase, mitochondrial (Decr1), Recombinant Protein
Full Product Name	Recombinant Mouse 2,4-dienoyl-CoA reductase, mitochondrial (Decr1)
Product Gene Name	Decr1 recombinant protein
Product Synonym Gene Name	Decr1
Sequence	SKDAPQSKFF QPVLKPMLPP DAFQGKVAFI TGGGTGLGKA MTTFLSTLGA QCVIASRNID VLKATAEEIS SKTGNKVHAI RCDVRDPDMV HNTVLELIKV AGHPDVVINN AAGNFISPSE RLTPNGWKTI TDIVLNGTAY VTLEIGKQLI KAQKGAAFLA ITTIYAESGS GFVMPSSSAK SGVEAMNKSL AAEWGRYGMR FNIIQPGPIK TKGAFSRLDP TGRFEKEMID RIPCGRLGTM EELANLATFL CSDYASWING AVIRFDGGEE VFLSGEFNSL KKVTKEEWDI IEGLIRKTKG S
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	36,214 Da
Sequence Positions	35-335, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9CQ62
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Decr1 recombinant protein	This gene encodes an accessory enzyme which participates in the beta-oxidation and metabolism of unsaturated fatty enoyl-CoA esters.
Other Notes	Small volumes of Decr1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Decr1 purchase	MBS1356154 is a recombinant protein targeting Decr1. Also known as Recombinant Mouse 2,4-dienoyl-CoA reductase, mitochondrial (Decr1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Decr1. It may not necessarily be applicable to this product.

NCBI GI #	13385680
NCBI GeneID	67460
NCBI Accession #	NP_080448.1

UniProt Primary Accession #	Q9CQ62
UniProt Secondary Accession #	Q9DCI7
UniProt Related Accession #	Q9CQ62
GenBank Nucleotide #	NM_026172.3
NCBI Official Full Name	2,4-dienoyl-CoA reductase, mitochondrial
NCBI Official Synonym Full Names	2,4-dienoyl CoA reductase 1, mitochondrial
NCBI Official Symbol	Decr1
NCBI Official Synonym Symbols	Decr; Nadph; 1200012F07Rik
UniProt Protein Name	2,4-dienoyl-CoA reductase, mitochondrial
UniProt Synonym Protein Names	2,4-dienoyl-CoA reductase [NADPH]; 4-enoyl-CoA reductase [NADPH]
Protein Family	2,4-dienoyl-CoA reductase
UniProt Gene Name	Decr1
UniProt Synonym Gene Names	4-enoyl-CoA reductase [NADPH]
NCBI Protein Information	2,4-dienoyl-CoA reductase, mitochondrial
UniProt Comments for Decr1	Auxiliary enzyme of beta-oxidation. It participates in the metabolism of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd-numbered positions. Catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA ().
Research Articles on Decr1	**1.** Fasted Decr(-/-) mice displayed increased serum acylcarnitines and unimpaired ketogenesis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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