
Product Data Sheet

Product Name: DECR2 Human
 Cat. No.: GP21551
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peroxisomal 2;4-dienoyl-CoA reductase; pDCR; 2;4-dienoyl-CoA reductase 2; DECR2; PDCR; SDR17C1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAQPPPD VEGDDCLPAY RHLFCPDLR 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 DGGAWLTFPN GVKGLPDFAS FSAKL.		
Formulation	The DECR2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.		

Introduction

Peroxisomal 2,4-dienoyl-CoA reductase (DECR2) is an supporting enzyme of beta-oxidation. DECR2 partakes in the degradation of unsaturated fatty enoyl-CoA esters having double bonds in both even- and odd-numbered positions in peroxisome. DECR2 catalyzes the NADP-dependent reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

DECR2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 315 amino acids (1-292) and having a molecular mass of

Caution: Product has not been fully validated for medical applications. For research use only.

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33.2kDa.DECR2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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