

DECR1 Human

Description: DECR1 Human Recombinant fused to 21 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 322 amino acids (35-335 a.a.) and having a molecular mass of 34.4kDa. The DECR1 is purified by proprietary chromatographic techniques.

Catalog #: ENPS-109

For research use only.

Synonyms: 2,4-dienoyl-CoA reductase, mitochondrial, 2,4-dienoyl-CoA reductase [NADPH], 4-enoyl-CoA reductase [NADPH], DECR1, DECR, NADPH, SDR18C1.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHH SSGLVPRGSH MNTEALQSKF FSPLQKAMLP
PNSFQGVAF ITGGGTGLGK GMTLLSSLG AQCVIASRKM DVLKATAEQI SSQTGNKVHA
IQCDVRDPDM VQNTVSELIK VAGHPNIVIN NAAGNFISPT ERLSPNAWKT ITDIVLNGTA
FVTLEIGKQL IKAQKGA AFL SITTIIAETG SGFVPSASA KAGVEAMSKS LAIEWGKYGM
RFNVIQPGPI KT

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The DECR1 solution contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 1mM DTT.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

DECR1 is a mitochondrial protein which exists as a homotetramer and is a member of a family of short-chain dehydrogenases/reductases. DECR1 acts as an auxiliary enzyme of beta-oxidation and partakes in the metabolism of unsaturated fatty enoyl-CoA esters. In particular, DECR1 uses NADP⁺ to catalyze the reduction of 2,4-dienoyl-CoA to yield trans-3-enoyl-CoA that can subsequently be used as an intermediate in the Krebs cycle. Furthermore, DECR1 is believed to work as a tumor suppressor, possibly downregulating the expression of Neu and slowing the rate of tumorigenesis.

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