SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ Membrane Protein Human HMGCR (3-hydroxy-3-methylglutaryl-CoA reductase)

Full Length

Cat. No.: **MPC1354K**
This product is for research use only and is not intended for diagnostic use.

This product is a 97.4 kDa Human HMGCR membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
HMGCR

Protein Length
Full length

Protein Class
Oxidoreductase

Molecular Weight
97.4 kDa

TMD
8

Sequence
MLSRLFRMHGLFVASHPWEVIVGTVTLTICMMSMNMFTGNNKICGWNYEC
PKFEEDVLSSDIIILTITRCIAILYIYFQFQNLRQLGSKYILGIAGLFTI
FSSFVFSTVVIHFLDKELTGLNEALPFFLLLIDLSRASTLAKFALSSNSQ
DEVRENIARGMAILGPTFTLDALVECLVIGVGTMSGVRQLEIMCCFGCMS
VLANYFVFMTFFPACVSLVLELSRESREGRPIWQLSHFARVLEEEENKPN
PVTQRVKMIMSLGLVLVHAHSRWIADPSPQNSTADTSKVSLGLDENVSKR
IEPSVSLWQFYLSKMISMDIEQVITLSLALLLAVKYIFFEQTETESTLSL
KNPITSPVVTQKKVPDNCCRREPMLVRNNQKCDSVEEETGINRERKVEVI
KPLVAETDTPNRATFVVGNSSLLDTSSVLVTQEPEIELPREPRPNEECLQ
ILGNAEKGAKFLSDAEIIQLVNAKHIPAYKLETLMETHERGVSIRRQLLS
KKLSEPSSLQYLPYRDYNYSLVMGACCENVIGYMPIPVGVAGPLCLDEKE
FQVPMATTEGCLVASTNRGCRAIGLGGGASSRVLADGMTRGPVVRLPRAC
DSAEVKAWLETSEGFAVIKEAFDSTSRFARLQKLHTSIAGRNLYIRFQSR
SGDAMGMNMISKGTEKALSKLHEYFPEMQILAVSGNYCTDKKPAAINWIE
GRGKSVVCEAVIPAKVVREVLKTTTEAMIEVNINKNLVGSAMAGSIGGYN
AHAANIVTAIYIACGQDAAQNVGSSNCITLMEASGPTNEDLYISCTMPSI
EIGTVGGGTNLLPQQACLQMLGVQGACKDNPGENARQLARIVCGTVMAGE
LSLMAALAAGHLVKSHMIHNRSKINLQDLQGACTKKTA

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

HMGCR

Full Name

3-hydroxy-3-methylglutaryl-CoA reductase

Introduction

HMG-CoA reductase is the rate-limiting enzyme for cholesterol synthesis and is regulated via a negative feedback mechanism mediated by sterols and non-sterol metabolites derived from mevalonate, the product of the reaction catalyzed by reductase. Normally in mammalian cells this enzyme is suppressed by cholesterol derived from the internalization and degradation of low density lipoprotein (LDL) via the LDL receptor. Competitive inhibitors of the reductase induce the expression of LDL receptors in the liver, which in turn increases the catabolism of plasma LDL and lowers the plasma concentration of cholesterol, an important determinant of atherosclerosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Alternative Names

HMGCR; LDLCQ3; 3-hydroxy-3-methylglutaryl-Coenzyme A reductase; 3-hydroxy-3-methylglutaryl CoA reductase (NADPH); HMG-CoA reductase; hydroxymethylglutaryl-CoA reductase; 3-hydroxy-3-methylglutaryl-CoA reductase

Gene ID

3156

UniProt ID

P04035

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