

Product Information

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

Expressed in *E.coli* with 6xHis tag at the N-terminus for Antibody Discovery, Partial (588-887aa)

Cat. No.: **MPX4238K**

This product is for research use only and is not intended for diagnostic use.

This product is a 36.0kDa Human HMGCR membrane protein expressed in *E.coli*. 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

Partial (588-887aa)

Protein Class

Oxidoreductase

Molecular Weight

36.0kDa

TMD

8

Sequence

MTRGPPVVRLPRACDSAEVKAWLETSEGFVAVIKEAFDSTSRFARLQKLHTSIAGRNLVIRFQSRSGDAMGMNMISKGTEKALSKLHE

Product Description

Expression Systems

E.coli

Tag

6xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Purity

>90% as determined by SDS-PAGE

Buffer

Tris-based buffer, 50% glycerol

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](#)