

Product Information

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

Expressed in Wheat germ, Full Length

Cat. No.: **MPX0088K**

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

This product is a 118 kDa Human HMGR membrane protein expressed in Wheat germ. 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

HMGR

Protein Length

Full length

Protein Class

Oxidoreductase

Molecular Weight

118 kDa

TMD

8

Sequence

MLSRLFRMHGLFVASHPWVIVGTVTLTICMMSNMFTGNNKICGWNYECPKFEEDVLSSDIILTITRCIALIYIFQFQNLRLQSGK

Product Description

Expression Systems

Wheat germ

Protein Format

Soluble

Form

Liquid

Buffer

pH: 8.00, Constituents: 0.31% Glutathione, 0.79% Tris HCl

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](#)