

Recombinant Human HMGCR Protein (Glu441-Asn875), N-SUMO tagged

Cat. No. HMGCR-2563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HMGCR (Glu441-Asn875) protein fused with the N-SUMO tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu441-Asn875
Description	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.
Molecular Mass	59.16 kDa
Purity	>90 % as determined by SDS-PAGE.

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02 % NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	HMGCR 3-hydroxy-3-methylglutaryl-CoA reductase [Homo sapiens (human)]
Official Symbol	HMGCR
Synonyms	HMGCR; 3-hydroxy-3-methylglutaryl-CoA reductase; 3 hydroxy 3 methylglutaryl Coenzyme A reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A reductase; 3 hydroxy 3 methylglutaryl CoA reductase (NADPH); hydroxymethylglutaryl CoA reductase; HMG-CoA reductase; hydroxymethylglutaryl-CoA reductase; 3-hydroxy-3-methylglutaryl CoA reductase (NADPH); LDLCQ3;
Gene ID	3156
mRNA Refseq	NM_000859
Protein Refseq	NP_000850

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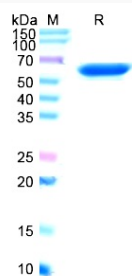
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MIM 142910

UniProt ID P04035

SDS-PAGE



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