

## 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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<b>Notes</b>	For research use only.
<b>Storage</b>	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.
<b>Storage Buffer</b>	0.01M PBS, pH 7.4, 0.02 % NLS
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	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

<b>Gene Name</b>	<a href="#">HMGCR 3-hydroxy-3-methylglutaryl-CoA reductase [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">HMGCR</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">3156</a>
<b>mRNA Refseq</b>	<a href="#">NM_000859</a>
<b>Protein Refseq</b>	<a href="#">NP_000850</a>

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**MIM** 142910

**UniProt ID** P04035

**SDS-PAGE**



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