DATASHEET

# Recombinant Human 3-Hydroxy-3-methylglutaryl-CoA Reductase, Catalytic Domain

CAT. NO. ARP6772

## KEY FEATURES

| | | | |
|---|---|---|---|
| Target | 3-Hydroxy-3-methylglutaryl-CoA Reductase, Catalytic Domain | Source/Expression System | E.coli |
| Reactivity | Human | Aapplication | SDS-PAGE |
| Abbreviation | rHuHMGR | Synonyms | HMG-CoA reductase |

## BACKGROUND

3-hydroxy-3-methylglutaryl-coenzyme A reductase (HMGRC) Catalyzes the conversion of (3S) -hydroxy-3-methylglutaryl-CoA (HMG-CoA) to mevalonic acid, the rate-limiting step in the synthesis of cholesterol and other isoprenoids, thus plays a critical role in cellular cholesterol homeostasis. HMGCR is the main target of statins, a class of cholesterol-lowering drugs. Inhibition of HMGCR in the liver stimulates the LDL-receptors, which results in an increased clearance of LDL from the bloodstream and a decrease in blood cholesterol levels, The first result can be seen after one week of statin use and the effect is maximal after four to six weeks. Recombinant human HMGR is a 60.4kDa protein containing  560 amino acid.

## PRODUCT OVERVIEW

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|---|---|
| Molecular Weight | Approximately 60.4 kDa, a single non-glycosylated polypeptide chain containing 560 amino acids. |
| Accession | P04035 Glu340-Ala888 with a C-terminal flag tag |
| A.A. Sequence | EQTETESTLSLKNPITSPVVTQKKVPDNCCRREPMLVRNNQKCDSVEEETGINRERKVEVIKPLVAETDTPNRATFVVG NSSLLDTSSVLVTQEPEIELPREPRPNEECLQILGNAEKGAKFLSDAEIIQLVNAKHIPAYKLETLMETHERGVSIRRQL LSKKLSEPSSLQYLPYRDYNYSLVMGACCENVIGYMPIPVGVAGPLCLDEKEFQVPMATTEGCLVASTNRGCRAIGLG GGASSRVLADGMTRGPVVRLPRACDSAEVKAWLETSEGFAVIKEAFDSTSRFARLQKLHTSIAGRNLYIRFQSRSGDA MGMNMISKGTEKALSKLHEYFPEMQILAVSGNYCTDKKPAAINWIEGRGKSVVCEAVIPAKVVREVLKTTTEAMIEVN INKNLVGSAMAGSIGGYNAHAANIVTAIYIACGQDAAQNVGSSNCITLMEASGPTNEDLYISCTMPSIEIGTVGGGT NLLPQQACLQMLGVQGACKDNPGENARQLARIVCGTVMAGELSLMAALAAGHLVKSHMIHNRSKINLQDLQGAC TKKTAGGGSDYKDDDK |
| Purity | ＞95% by SDS-PAGE under reducing conditions. |
| Formulation | A 0.2 μm filtered concentrated solution in 10 mM PB, with 50% (v/v) Glycerol, 2.5 mM DTT, pH 7.4. |
| Appearance | Sterile colorless liquid. |
| Concentration | No less than 10mg/ml; The concentration for a specific batch as shown in the COA |
| Endotoxin | < 0.5 EU/μg of rHuHMGR protein as determined by LAL method. |
| Reconstitution | Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions. |
| Tag | C-terminal Flag Tag |

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## STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 6 to 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.