

# Recombinant Human HMGCS1

**Cat. No.** HMGCS1-29335TH    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant fragment of Human HMGCS1 with N terminal proprietary tag, 36.52kDa.                          |
| <b>Species</b>                  | Human                                                                                                    |
| <b>Source</b>                   | Wheat Germ                                                                                               |
| <b>ProteinLength</b>            | 99 amino acids                                                                                           |
| <b>Molecular Weight</b>         | 36.520kDa inclusive of tags                                                                              |
| <b>Form</b>                     | Liquid                                                                                                   |
| <b>Purity</b>                   | Proprietary Purification                                                                                 |
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                    |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                |
| <b>Sequences of amino acids</b> | VFAENMKLREDTYHLVNYIPQGSIDSLFEGTWYLVVRVDEKHRRTYARRPTPNDDTLD<br>EGVGLVHSNIATEHIPSPAKKVPRLPATAAEPEAAVISNGEH |
| <b>Sequence Similarities</b>    | Belongs to the HMG-CoA synthase family.                                                                  |

## GENE INFORMATION

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|                            |                                                                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | HMGCS1 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble) [ Homo sapiens ]                                                                                                                                                                                                                            |
| <b>Official Symbol</b>     | HMGCS1                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>            | HMGCS1; 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble); 3 hydroxy 3 methylglutaryl Coenzyme A synthase 1 (soluble) , HMGCS; hydroxymethylglutaryl-CoA synthase, cytoplasmic; 3 hydroxy 3 methylglutaryl coenzyme A (HMG CoA) synthase;                                                            |
| <b>Gene ID</b>             | 3157                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_001098272                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_001091742                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>                 | 142940                                                                                                                                                                                                                                                                                                 |
| <b>Uniprot ID</b>          | Q01581                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 5p14-p13                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, organism-specific biosystem; C5 isoprenoid biosynthesis, mevalonate pathway, conserved biosystem; Cholesterol Biosynthesis, organism-specific biosystem; |
| <b>Function</b>            | catalytic activity; drug binding; hydroxymethylglutaryl-CoA synthase activity; isomerase activity; organic acid binding;                                                                                                                                                                               |

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