

# Recombinant Human HMGCS1 Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** HMGCS1-171H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | HMGCS1 MS Standard C13 and N15-labeled recombinant protein (NP_002121) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase. [UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 57.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MPGSLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGV DAGKYTIGLGQAKM<br>GFCTDREDINSLCMTVVQNL MERNNLSYDCIGRLEVGTETIIDKSKSVKTNLMQLFEE<br>SGNTDIEGIDTTNACYGGTAAVFNAVNWIESSSWDGRYALVVAGDIAVYATGNARPT<br>GGVGAVALLIGNAPLIFERGLRGTHMQHAYDFYKPDMLSEYPIVDGKLSIQCYLSAL<br>DRCYSVYCKKIHAQWQKEGNDKDFTLNDFGFMIFHSPYCKLVQKSLARMLLNDFLN<br>DQNRDKNSIYSGLEAFGDVKLEDTYFDRDVEKAFMKASSELSQKTKASLLVSNQN<br>GNMYTSSVYGSLASVLAQYSPQQLAGKRIGVFSYGSGLAATLYSLKVTQDATPGSA<br>LDKITASLCDLKSRLDSRTGVAPDVFAENMKLREDTYHLVNYIPQGSIDSLFEGTWYL<br>VRVDEKHRRTYARRPTPNDDTLDEGVGLVHSNIATEHIPSPAKKVPRLPATAAEPEA<br>AVISNGEHSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

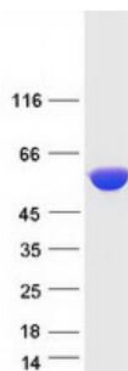
|                        |                                                                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HMGCS1 3-hydroxy-3-methylglutaryl-CoA synthase 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                         |
| <b>Official Symbol</b> | HMGCS1                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>        | HMGCS1; 3-hydroxy-3-methylglutaryl-CoA synthase 1; HMGCS; hydroxymethylglutaryl-CoA synthase, cytoplasmic; 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) synthase; 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble); 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble); EC 2.3.3.10 |
| <b>Gene ID</b>         | 3157                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_002130                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_002121                                                                                                                                                                                                                                                                                         |
| <b>MIM</b>             | 142940                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>      | Q01581                                                                                                                                                                                                                                                                                            |

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## SDS-PAGE



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