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# HMG-CoA Reductase Catalytic Domain (GST Tagged), human recombinant protein

**3-Hydroxy-3-methylglutaryl-CoA reductase, HMGR, HMGCR**

**Catalog # PBV11400r**

## Specification

### HMG-CoA Reductase Catalytic Domain (GST Tagged), human recombinant protein - Product info

| | |
|---|---|
| Primary Accession | P04035 |
| Calculated MW | **75.9 kDa (426–888 aa, NT GST Tag) KDa** |

### HMG-CoA Reductase Catalytic Domain (GST Tagged), human recombinant protein - Additional Info

| | |
|---|---|
| Gene ID | **3156** |
| Gene Symbol | **HMGCR** |

**Other Names**
3-Hydroxy-3-methylglutaryl-CoA reductase, HMGR, HMGCR

| | |
|---|---|
| Gene Source | **Human** |
| Source | **E. coli** |
| Assay&Purity | **SDS-PAGE; ≥90%** |
| Assay2&Purity2 | **N/A;** |
| Recombinant | **Yes** |
| Results | **> 1.0 Unit/mg** |
| Sequence | **426–888 aa** |

**Target/Specificity**
HMG-CoA Reductase

**Application Notes**
Briefly spin down the vial and reconstitute in 50% glycerol in PBS to 0.5-1.0 mg/ml and store at –80°C.

**Format**
Lyophilized

**Storage**
-80°C; Lyophilized from proprietary buffer containing BSA

### HMG-CoA Reductase Catalytic Domain (GST Tagged), human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**HMG-CoA Reductase Catalytic Domain (GST Tagged), human recombinant protein - Images**

**HMG-CoA Reductase Catalytic Domain (GST Tagged), human recombinant protein - Background**

HMG-CoA reductase (3-hydroxy-3-methyl-glutaryl-CoA reductase or HMGR) (EC 1.1.1.34) is a transmembrane protein involved in the mevalonate pathway, the metabolic pathway that produces cholesterol from acetyl-CoA. In an NADPH-dependent reaction, HMG-CoA reductase reduces HMG-CoA to generate mevalonate and CoA. Since HMG-CoA reductase catalyzes the rate limiting step in cholesterol synthesis, it is a primary target of a group of cholesterol-lowering drugs known as statins. Inhibition of HMG-CoA reductase induces expression of LDL receptors in the liver, which lowers plasma concentration of cholesterol.

**HMG-CoA Reductase Catalytic Domain (GST Tagged), human recombinant protein - References**

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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