

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

**CATALOG #:** 7841-100 100 µg  
7841-500 500 µg

**ALTERNATIVE NAMES:** 3-Hydroxy-3-methylglutaryl-CoA reductase, HMGR, HMGCR

**SOURCE:** *E. coli*

**FORM:** Lyophilized

**FORMULATION:** Lyophilized from proprietary buffer containing BSA

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

**PURITY:** ≥90% by SDS-PAGE.

**MOL. WT.:** 75.9 kDa (426–888 aa, NT GST Tag)

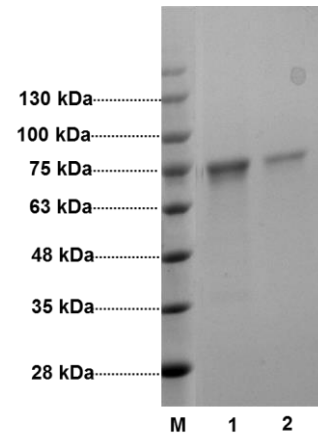
**SPECIFIC ACTIVITY:** The specific activity was determined to be >1.0 Unit/mg by BioVision's HMG-CoA reductase Activity/Inhibitor Screening Kit (Cat # K588).

**UNIT DEFINITION:** One unit is defined as the amount of enzyme required to convert 1.0 µmole of NADPH to NADP<sup>+</sup> per minute at 37 °C

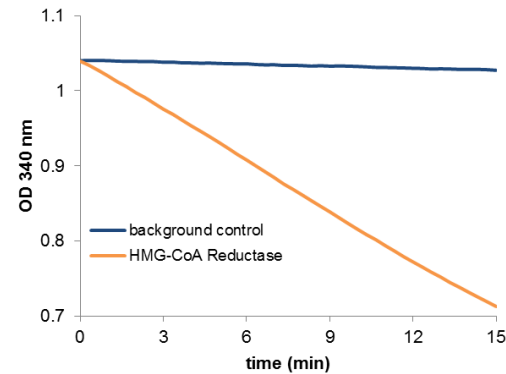
**STORAGE CONDITIONS:** Store at -80°C. Stable for at least 1 year as supplied. Avoid repeated freeze and thaw cycles.

**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.

**For Research Use Only! Not to be used in humans.**



SDS-PAGE (4-20%) of h-HMGR:  
M: Protein Marker  
1: h-HMGR (3 µg)  
2: h-HMGR (1 µg)



HMG-CoA reductase activity measured using HMG-CoA Reductase Activity/Inhibitor Screening Kit (Cat # K588).

**RELATED PRODUCTS:**

- HMG-CoA Reductase Activity/Inhibitor Screening Kit (Cat # K588)
- HMG-CoA Blocking Peptide (Cat # 3952BP-50)
- HMG-CoA Reductase Antibody (Cat # 3952-100)
- HMG2L1 polyclonal antibody (Cat # 6863-50)
- Atorvastatin (Cat # 2278-10, 50)
- EZSolution™ Rosuvastatin (Cat # 2806-5)
- Human CellExp™ HMGB1 /HMG1, human recombinant (Cat # 7240-10)
- Human CellExp™ SCF, Human Recombinant (Cat # 6478-10, 50)

