

**HMGCS1, 1-520aa, Human, His tag, E.coli**

**Cat.NO.: TP02472**

3th Edition

**Synonyms:**Hydroxymethylglutaryl-CoA synthase, cytoplasmic, HMGCS

**Description:**HMGCS1 also known as hydroxymethylglutaryl-CoA synthase, cytoplasmic. This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase. Recombinant human HMGCS1 was expressed in E.coli and purified by using conventional chromatography techniques

**Form:**Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT

**Molecular Weight:**59.7kDa (543aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMPSGLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGVDAGKYTIGLG  
QAKMGFCTDREDINSLCMTVVQNLMEKNNSYDCIGRLEVGTETIIDKSKSVKTNLMQLFEESGNTDIEGIDTTNAC  
YGGTAAVFNAVNWIESSWDGRYALVVAGDIAVYATGNARPTGGVGAVALLIGPNAPLIFERGLRGTHMQHAYDFY  
KPDMLSEYPIVDGKLSIQCYLSALDRCYSVYCKKIIHAQWQKEGNDKDFTLNDFGFMIFHSPYCKLVQKSLARMLLN  
DFLNDQNRDKNSIYSGLEAFGDVKLEDYFDRDVEKAFMKASSELSQKTKASLLVSNQNGNMYTSSVYGSLASVL  
AQYSPQQLAGKRIGVFSYGSGLAATLYSLKVTQDATPGSALDKITASLCDLKSRLDSRTGVAPDVFAENMKLRDT  
HHLVNYIPQGSIDSLFEGTWYLVVRVDEKHRRTYARRPTPNDDTLDEGVGLVHSNIATEHIPSPAKKVPRLPATAAEP  
EAAVISNGEH

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.