
Product Data Sheet

Product Name: HMGCS1 Human
 Cat. No.: GP21794
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	3-Hydroxy-3-Methylglutaryl-CoA Synthase 1 (Soluble); 3-Hydroxy-3-Methylglutaryl-Coenzyme A Synthase 1 (Soluble); 3-Hydroxy-3-Methylglutaryl Coenzyme A (HMG-CoA) Synthase; EC 2.3.3.10; HMGCS; Hydroxymethylglutaryl-CoA Synthase; Cytoplasmic; 3-Hydroxy-3-Methylglutaryl Coenzyme A Synthase; HMG-CoA Synthase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMPGSLPL NAEACWPKDV GIVALEIYFP SQYVDQAELE KYDGV DAGKY TIGLGQAKMG FCTDREDINS LCMTVVQNLN ERNLSYDCI GRLEVGTETI IDKSKSVKTN LMQLFEESGN TDIEGIDTTN ACYGGTAAVF NAVNWIESSS WDRYALVVA GDI VYATGN ARPTGGVGAV ALLIGNAPL IFERGLRGTH MQHAYDFYKP DMLSEYPIVD GKLSIQCYLS ALDRCYSVYC KKIHAQWQKE GNDKDFTLND FGMIFHSPY CKLVQKSLAR MLLNDFLNDQ NRDKNSIYSG LEAFGDVKLE DTYFDRDVEK AFMKASSELF SQKTKASLLV SNQNGNMYTS SVYGSLASVL AQYSPQQLAG KRIGVFSYGS GLAATLYSLK VTQDATPGSA LDKITASLCD LKSRLDSRTG VAPDVFAENM KLREDTHHLV NYIPQGSIDS LFEGTWYLVV RDEKRRRTYA RRPTPNDDTL DEGVGLVHSN IATEHIPSPA KKVPRLPATA AEPEAAVISN GEH		
Formulation	HMGCS1 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.		

Introduction

3-Hydroxy-3-Methylglutaryl-CoA Synthase 1, also known as HMGCS1 is a member of the Belongs to the HMG-CoA synthase family. HMGCS1 condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HMGCS1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 543 amino acids (1-520 a.a) and having a molecular mass of 59.7kDa. HMGCS1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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