HMGCS1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	HMGCS1, Blocking Peptide
Full Product Name	HMGCS1 Immunizing Peptide
Product Gene Name	HMGCS1 blocking peptide
Product Synonym Names	HMGCS1; 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble); HMGCS; 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble); hydroxymethylglutaryl-CoA synthase, cytoplasmic
Sequence	ERNNLSYDCI GRLE
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	HMGCS1 peptide (MBS428740) is used for blocking the activity of HMGCS1 antibody (MBS423645)
Molecular Weight	57,294 Da
OMIM	142940
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for HMGCS1 blocking peptide	MBS428740 is a blocking peptide targeting HMGCS1. Also known as HMGCS1 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of HMGCS1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HMGCS1. It may not necessarily be applicable to this product.

NCBI GI #	148298764
NCBI GeneID	3157
NCBI Accession #	NP_002121.4
UniProt Secondary Accession #	B2RDL8
UniProt Related Accession #	Q01581
GenBank Nucleotide #	NM_002130.7
NCBI Official Full Name	hydroxymethylglutaryl-CoA synthase, cytoplasmic isoform 1
NCBI Official Synonym Full Names	3-hydroxy-3-methylglutaryl-CoA synthase 1
NCBI Official Symbol	HMGCS1
NCBI Official Synonym Symbols	HMGCS
UniProt Protein Name	Hydroxymethylglutaryl-CoA synthase, cytoplasmic
UniProt Synonym Protein Names	3-hydroxy-3-methylglutaryl coenzyme A synthase

Protein Family	Hydroxymethylglutaryl-CoA synthase
UniProt Gene Name	HMGCS1
UniProt Synonym Gene Names	HMGCS; HMG-CoA synthase
UniProt Entry Name	HMCS1_HUMAN
NCBI Protein Information	hydroxymethylglutaryl-CoA synthase, cytoplasmic
UniProt Comments for HMGCS1	HMGCS1: This enzyme condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA, which is the substrate for HMG-CoA reductase. Belongs to the HMG-CoA synthase family. Protein type: Transferase; EC 2.3.3.10; Amino Acid Metabolism - valine, leucine and isoleucine degradation; Lipid Metabolism - synthesis and degradation of ketone bodies; Carbohydrate Metabolism - butanoate; Secondary Metabolites Metabolism - terpenoid backbone biosynthesis Chromosomal Location of Human Ortholog: 5p14-p13 Cellular Component: cytoplasm; cytosol; nucleoplasm; nucleus; plasma membrane Molecular Function: drug binding; hydroxymethylglutaryl-CoA synthase activity; isomerase activity; organic acid binding; protein homodimerization activity Biological Process: brain development; cholesterol biosynthetic process; isoprenoid biosynthetic process; lipid metabolic process; liver development; male gonad development; response to drug; response to lipoprotein stimulus; response to low light intensity; response to purine; response to tellurium ion; response to vitamin E
Research Articles on HMGCS1	**1.** The authors report high-resolution crystal structures of the human cytosolic (hHMGCS1) and mitochondrial (hHMGCS2) isoforms in binary product complexes.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-blocking-peptide/hmgcs1/428740