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HMGCL Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP18139a

Specification

HMGCL Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P35914

HMGCL Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3155

Other Names
Hydroxymethylglutaryl-CoA lyase, mitochondrial, HL, HMG-CoA lyase, 3-hydroxy-3-methylglutarate-CoA lyase, HMGCL

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

HMGCL Antibody (N-term) Blocking Peptide - Protein Information

Name HMGCL

Function
Mitochondrial 3-hydroxymethyl-3-methylglutaryl-CoA lyase that catalyzes a cation-dependent cleavage of (S)-3-hydroxy-3- methylglutaryl-CoA into acetyl-CoA and acetoacetate, a key step in ketogenesis. Terminal step in leucine catabolism. Ketone bodies (beta- hydroxybutyrate, acetoacetate and acetone) are essential as an alternative source of energy to glucose, as lipid precursors and as regulators of metabolism.

Cellular Location
Mitochondrion matrix {ECO:0000250|UniProtKB:P38060}. Peroxisome {ECO:0000250|UniProtKB:P38060}. Note=Unprocessed form is peroxisomal {ECO:0000250|UniProtKB:P38060}

Tissue Location
Highest expression in liver. Expressed in pancreas, kidney, intestine, testis, fibroblasts and lymphoblasts. Very low expression in brain and skeletal muscle. The relative expression of isoform 2 (at mRNA level) is highest in heart (30%), skeletal muscle (22%), and brain (14%).

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HMGCL Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

HMGCL Antibody (N-term) Blocking Peptide - Images

HMGCL Antibody (N-term) Blocking Peptide - Background

The protein encoded by this gene belongs to the HMG-CoAlyase family. It is a mitochondrial enzyme that catalyzes the finalstep of leucine degradation and plays a key role in ketone bodyformation. Mutations in this gene are associated with HMG-CoA lyasedeficiency. Alternatively spliced transcript variants encodingdifferent isoforms have been found for this gene. [provided byRefSeq].

HMGCL Antibody (N-term) Blocking Peptide - References

Fu, Z., et al. J. Biol. Chem. 285(34):26341-26349(2010)Pierron, S., et al. Arch Pediatr 17(1):10-13(2010)Menao, S., et al. Hum. Mutat. 30 (3), E520-E529 (2009) :Lin, W.D., et al. Clin. Chim. Acta 401 (1-2), 33-36 (2009) :Carrasco, P., et al. Mol. Genet. Metab. 91(2):120-127(2007)