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ACAT1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20741c

Specification

ACAT1 Blocking Peptide (C-term) - Product Information

Primary Accession	P24752
Other Accession	O8HXY6

ACAT1 Blocking Peptide (C-term) - Additional Information

Gene ID 38

Other Names
Acetyl-CoA acetyltransferase, mitochondrial, Acetoacetyl-CoA thiolase, T2, ACAT1, ACAT, MAT

Target/Specificity
The synthetic peptide sequence is selected from aa 393-406 of HUMAN ACAT1

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.

ACAT1 Blocking Peptide (C-term) - Protein Information

Name ACAT1

Synonyms ACAT, MAT

Function
This is one of the enzymes that catalyzes the last step of the mitochondrial

ACAT1 Blocking Peptide (C-term) - Background

Plays a major role in ketone body metabolism.

ACAT1 Blocking Peptide (C-term) - References

Fukao T.,et al.J. Clin. Invest. 86:2086-2092(1990).
Kano M.,et al.Gene 109:285-290(1991).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Aboulaich N.,et al.Biochem. J. 383:237-248(2004).

beta-oxidation pathway, an aerobic process breaking down fatty acids into acetyl-CoA (PubMed:1715688, PubMed:7728148, PubMed:9744475). Using free coenzyme A/CoA, catalyzes the thiolytic cleavage of medium- to long-chain 3-oxoacyl-CoAs into acetyl-CoA and a fatty acyl-CoA shortened by two carbon atoms (PubMed:1715688, PubMed:7728148, PubMed:9744475). The activity of the enzyme is reversible and it can also catalyze the condensation of two acetyl-CoA molecules into acetoacetyl-CoA (PubMed:17371050). Thereby, it plays a major role in ketone body metabolism (PubMed:17371050, PubMed:1715688, PubMed:7728148, PubMed:9744475).

Cellular Location
Mitochondrion.

ACAT1 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides