

## **ACOT8 Blocking Peptide (C-term)**

Synthetic peptide Catalog # BP21424b

### **Specification**

## ACOT8 Blocking Peptide (C-term) - Product Information

Primary Accession

014734

# ACOT8 Blocking Peptide (C-term) - Additional Information

**Gene ID 10005** 

#### **Other Names**

Acyl-coenzyme A thioesterase 8, Acyl-CoA thioesterase 8, Choloyl-coenzyme A thioesterase, HIV-Nef-associated acyl-CoA thioesterase, PTE-2, Peroxisomal acyl-coenzyme A thioester hydrolase 1, PTE-1, Peroxisomal long-chain acyl-CoA thioesterase 1, Thioesterase II, hACTE-III, hACTEIII, hTE, ACOT8, ACTEIII, PTE1, PTE2

#### Target/Specificity

The synthetic peptide sequence is selected from aa 275-290 of HUMAN ACOT8

#### **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.

## **ACOT8 Blocking Peptide (C-term) - Protein Information**

## Name ACOT8

Synonyms ACTEIII, PTE1 {ECO:0000303|PubMed:100925

#### **Function**

Catalyzes the hydrolysis of acyl-CoAs into free fatty acids and coenzyme A (CoASH), regulating their respective intracellular levels (PubMed:<a href="http://www.uniprot.org/citations/15194431" target="\_blank">15194431</a><a href="http://www.uniprot.org/citations/9153233" target="\_blank">9153233</a><a href="http://www.uniprot.org/citations/9299485" target="\_blank">9299485</a><a href="http://www.uniprot.org/citations/9299485" target="\_blank">9299485</a><a href="http://www.uniprot.org/citations/9299485" target="\_blank">9153233</a><a href="http://www.uniprot.org/citations/9153233" target="\_blank">9153233</a><a href="http://www.uniprot.org/citations/9299485" target="\_blank">9299485</a><a href="http://www.uniprot.org/citations/9299485" target="\_blank">9299485</a href="http://www.uniprot.org/citations/9299485" target="\_blank">9299485</a href="http://www.uniprot.org/citations/9299485" target="\_blank">9299485</a href="http://www.uniprot.org/citations/9299485" target="\_blank">9299485</a href="http://www.uniprot.org/citations/9



such as choloyl-CoA and chenodeoxycholoyl-CoA and competes with bile acid CoA:amino acid N-acyltransferase (BAAT) (By similarity). Is also able to hydrolyze CoA esters of dicarboxylic acids (By similarity). It is involved in the metabolic regulation of peroxisome proliferation (PubMed:<a href="http://www.uniprot.org/citations/15194431" target="blank">15194431</a>).

#### **Cellular Location**

Peroxisome matrix. Note=Predominantly localized in the peroxisome but a localization to the cytosol cannot be excluded

#### **Tissue Location**

Detected in a T-cell line (at protein level). Ubiquitous (PubMed:9153233, PubMed:9299485)

## **ACOT8 Blocking Peptide (C-term) - Protocols**

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

#### Blocking Peptides

ACOT8 Blocking Peptide (C-term) - Images

### ACOT8 Blocking Peptide (C-term) - Background

Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. May mediate Nef-induced down-regulation of CD4. Major thioesterase in peroxisomes. Competes with BAAT (Bile acid CoA: amino acid N- acyltransferase) for bile acid-CoA substrate (such as chenodeoxycholoyl-CoA). Shows a preference for medium-length fatty acyl-CoAs (By similarity). May be involved in the metabolic regulation of peroxisome proliferation.

## **ACOT8 Blocking Peptide (C-term) - References**

Watanabe H., et al. Biochem. Biophys. Res. Commun. 238:234-239(1997). Liu L.X., et al. J. Biol. Chem. 272:13779-13785(1997). Jones J.M., et al. J. Biol. Chem. 274:9216-9223(1999). Deloukas P., et al. Nature 414:865-871(2001). Ishizuka M., et al. Exp. Cell Res. 297:127-141(2004).