

CPT2 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP19938c**Specification**

CPT2 Blocking Peptide (Center) - Product InformationPrimary Accession
Other Accession[P23786](#)
[Q60HG9](#), [NP_000089.1](#)**CPT2 Blocking Peptide (Center) - Additional Information****Gene ID** 1376**Other Names**

Carnitine O-palmitoyltransferase 2, mitochondrial, Carnitine palmitoyltransferase II, CPT II, CPT2, CPT1

Target/Specificity

The synthetic peptide sequence is selected from aa 227-241 of HUMAN CPT2

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.

CPT2 Blocking Peptide (Center) - Protein Information**Name** CPT2 ([HGNC:2330](#))**Synonyms** CPT1**Function**

Involved in the intramitochondrial synthesis of acylcarnitines from accumulated acyl-CoA metabolites (PubMed:20538056, PubMed:24780397). Reconverts acylcarnitines back into the respective acyl-CoA esters that can then undergo beta-oxidation, an essential step for the mitochondrial uptake of long-chain fatty acids and their subsequent beta-oxidation in the mitochondrion. Active with medium (C8- C12) and long-chain (C14-C18) acyl-CoA esters (PubMed:20538056).

Cellular Location

Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

CPT2 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

CPT2 Blocking Peptide (Center) - Images

CPT2 Blocking Peptide (Center) - Background

The protein encoded by this gene is a nuclear protein which is transported to the mitochondrial inner membrane. Together with carnitine palmitoyltransferase I, the encoded protein oxidizes long-chain fatty acids in the mitochondria. Defects in this gene are associated with mitochondrial long-chain fatty-acid (LCFA) oxidation disorders.

CPT2 Blocking Peptide (Center) - References

Lan, M.Y., et al. Clin. Genet. 78(6):565-569(2010)
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Ruano, G., et al. Pharmacogenomics 11(7):959-971(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Hogan, K.J., et al. Anesth. Analg. 109(4):1070-1072(2009)