

CIDEB Blocking Peptide (C-erm)
Synthetic peptide
Catalog # BP21953a**Specification**

CIDEB Blocking Peptide (C-erm) - Product InformationPrimary Accession [Q9UHD4](#)**CIDEB Blocking Peptide (C-erm) - Additional Information****Gene ID** 27141**Other Names**

Cell death activator CIDE-B, Cell death-inducing DFFA-like effector B, CIDEB

Target/Specificity

The synthetic peptide sequence is selected from aa 170-183 of HUMAN CIDEB

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.

CIDEB Blocking Peptide (C-erm) - Protein Information**Name** CIDEB {ECO:0000303|PubMed:35939579, ECO:0000312|HGNC:HGNC:1977}**Function**

Lipid transferase specifically expressed in hepatocytes, which promotes unilocular lipid droplet formation by mediating lipid droplet fusion (PubMed:35939579). Lipid droplet fusion promotes their enlargement, restricting lipolysis and favoring lipid storage (PubMed:35939579). Localizes on the lipid droplet surface, at focal contact sites between lipid droplets, and mediates atypical lipid droplet fusion by promoting directional net neutral lipid transfer from the smaller to larger lipid droplets (By similarity). The transfer direction may be driven by the internal pressure difference between the contacting lipid droplet pair (By similarity). Promotes lipid exchange and lipid droplet fusion in both small and large lipid droplet- containing hepatocytes (By similarity). In addition to its role in lipid droplet fusion, also involved in cytoplasmic vesicle biogenesis and transport (By similarity). Required for very-low-density lipoprotein (VLDL) lipidation and maturation (By similarity). Probably involved in the biogenesis of VLDL transport vesicles by forming a COPII vesicle coat and facilitating the formation of endoplasmic reticulum-derived large vesicles (By similarity). Also involved in sterol-regulated export of the SCAP-SREBP complex, composed of

SCAP, SREBF1/SREBP1 and SREBF2/SREBP2, by promoting loading of SCAP-SREBP into COPII vesicles (By similarity). May also activate apoptosis (PubMed:10619428).

Cellular Location

Lipid droplet. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:O70303}; Peripheral membrane protein {ECO:0000250|UniProtKB:O70303}; Cytoplasmic side {ECO:0000250|UniProtKB:O70303}. Golgi apparatus {ECO:0000250|UniProtKB:O70303}. Cytoplasmic vesicle, COPI-coated vesicle {ECO:0000250|UniProtKB:O70303}. Note=Enriched at lipid droplet contact sites. {ECO:0000250|UniProtKB:O70303}

Tissue Location

Highly expressed in liver and small intestine and, at lower levels, in colon, kidney and spleen

CIDEB Blocking Peptide (C-erm) - Protocols

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

- [Blocking Peptides](#)

CIDEB Blocking Peptide (C-erm) - Images**CIDEB Blocking Peptide (C-erm) - Background**

Activates apoptosis.

CIDEB Blocking Peptide (C-erm) - References

Lugovskoy A.A.,et al.Cell 99:747-755(1999).
Inohara N.,et al.EMBO J. 17:2526-2533(1998).
Liang L.,et al.Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.