

Product datasheet

DREAM peptide ab55818

Overview

Product name DREAM peptide

Description

Nature Synthetic

Specifications

Our [Abpromise guarantee](#) covers the use of **ab55818** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Blocking - Blocking peptide for Anti-DREAM antibody ([ab41717](#))

Purity > 90 % SDS-PAGE.

Additional notes Previously labelled as CSEN.

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
 Preservative: 0.02% Thimerosal (merthiolate)
 Constituents: 0.1% BSA, PBS, pH 7.2

General Info

Function Calcium-dependent transcriptional repressor that binds to the DRE element of genes including PDYN and FOS. Affinity for DNA is reduced upon binding to calcium and enhanced by binding to magnesium. Seems to be involved in nociception.
 Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels, such as KCND2/Kv4.2 and KCND3/Kv4.3. Modulates channel expression at the cell membrane, gating characteristics, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner.
 May play a role in the regulation of PSEN2 proteolytic processing and apoptosis. Together with PSEN2 involved in modulation of beta-amyloid formation.

Tissue specificity Highly expressed in brain. Widely expressed at lower levels. Expression levels are elevated in brain cortex regions affected by Alzheimer disease.

Sequence similarities	Belongs to the recoverin family. Contains 4 EF-hand domains.
Post-translational modifications	Palmitoylated. Palmitoylation enhances association with the plasma membrane. Proteolytically cleaved by caspase-3. Phosphorylation at Ser-63 inhibits cleavage by CASP3.
Cellular localization	Cytoplasm. Cell membrane. Endoplasmic reticulum. Golgi apparatus. Nucleus. Also membrane-bound, associated with the plasma membrane (PubMed:15485870). In the presence of PSEN2 associated with the endoplasmic reticulum and Golgi. The sumoylated form is present only in the nucleus.

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