

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



CACNG1 Peptide

Cat No.: BS5785P

Background

Voltage-dependent calcium channels are essential for the release of neurotransmitters. L-type (long lasting current) voltage-dependent calcium channels are composed of four subunits: an $\alpha 1$ subunit, a β subunit, a γ subunit and an $\alpha 2\delta$ subunit. The β subunit is encoded by four genes, designated $\beta 1$ - $\beta 4$, all of which contribute to the diversity of calcium currents and are involved in membrane trafficking of the $\alpha 1$ subunit. L-type Ca^{++} CP $\gamma 1$, also known as CACNLG or CACNG1, is a 222 amino acid multi-pass membrane protein belonging to the PMP-22/EMP/MP20 family. Expressed in skeletal muscle, L-type Ca^{++} CP $\gamma 1$ is a subunit of the dihydropyridine (DHP) sensitive calcium channel and may play a role in excitation-contraction coupling. L-type Ca^{++} CP $\gamma 1$ is considered a novel marker for malignant hyperthermia susceptibility (MHS), an autosomal dominant disorder of skeletal muscle which manifests as a life-threatening hypermetabolic crisis triggered by commonly used inhalation anaesthetics and depolarizing muscle relaxants.

Swiss-Prot

Q06432

Applications

Blocking

Specificity

This peptide can be used with studies using BS5785 CACNG1 pAb.

Purification & Purity

Synthetic peptide CACNG1. (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term.

Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.