

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Na<sup>+</sup> CP type IX $\alpha$ (R692) Peptide

Cat No.: BS9164P

#### Background

Voltage-gated Na<sup>+</sup> channels regulate the permeability of excitable cells to sodium ions. During the propagation of an action potential, Na<sup>+</sup> channels allow an influx of sodium ions, which rapidly depolarize the cell. The sodium channel protein is comprised of one  $\alpha$  subunit and two  $\beta$  subunits. The Na<sup>+</sup> CP type I and Na<sup>+</sup> CP type II $\alpha$  subunits are expressed in adult brain. Na<sup>+</sup> CP type III $\alpha$  is expressed in embryonic brain, but not in adult brain. Na<sup>+</sup> CP type III $\beta$  is a 215 amino acid, single-pass type I membrane protein that modulates sodium channel gating kinetics and inactivates the channel opening more slowly than the I $\beta$  subunit. It has an extracellular N-terminal domain, an N-terminal signal sequence, a single membrane-spanning region and a C-terminal cytoplasmic region.

#### Swiss-Prot

Q15858

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS9164 Na<sup>+</sup> CP type IX $\alpha$  (R692) pAb.

#### Purification & Purity

Synthetic peptide Na<sup>+</sup> CP type IX $\alpha$  (R692). (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.

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