

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Na<sup>+</sup> CP type VIII $\alpha$ Peptide

Cat No.: BS60365P

#### Background

The sodium channel protein type 8 subunit alpha (Na<sup>+</sup> CP type VIII $\alpha$ ) is a multi-pass, transmembrane protein that mediates the sodium ion permeability of excitable membranes. The three glycoproteins that comprise the voltage-gated sodium channel proteins include a pore-forming  $\alpha$  subunit, a noncovalently associated  $\beta$ 1 subunit and a disulfide-linked  $\beta$ 2 subunit. The two  $\beta$  subunits regulate the level of channel expression, modulate gating and function as cell adhesion molecules for cellular aggregation and cytoskeleton interaction. The  $\alpha$  subunits of sodium channels type I and III are predominantly expressed in neuronal cell bodies and proximal processes, while type II $\alpha$  subunits are more abundant along axons. Sodium channels are important for rapid signal transduction but also play a significant role in neuronal development. Defects of the SCN8A gene have exhibited detrimental effects on the growth of secondary motoneurons. Loss of SCN8A expression will result in progressive paralysis and early death.

#### Swiss-Prot

Q9UQD0

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS60365 Na<sup>+</sup> CP type VIII $\alpha$  pAb.

#### Purification & Purity

Synthetic peptide Na<sup>+</sup> CP type VIII $\alpha$ . (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.