

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### SLC8A1 Peptide

Cat No.: BS5816P

#### Background

Sodium/calcium exchanger proteins are integral membrane proteins primarily seen in cardiac cells. In cardiac myocytes, the concentration of Ca<sup>2+</sup> alternates between low levels during relaxation and high levels during contraction. The Na<sup>+</sup>/Ca<sup>2+</sup> exchanger 1 (NCX1) protein mediates Ca<sup>2+</sup> extrusion from cardiac cells during relaxation. Four NCX1 isoforms (NCX1.1, NCX1.3, NCX1.7, and NCX1.10) result from alternate splicing. NCX1 mRNA is present at high levels in the heart, with lower levels present in the brain. NCX2 is most abundantly expressed in brain, in contrast to the broader distribution of NCX1, which is also expressed in heart, kidney, lung, smooth and skeletal muscle. The difference in expression for the transporter subtypes is believed to reflect differences in their functional roles. Regulation mechanisms for these exchanger proteins have not been fully characterized.

#### Swiss-Prot

P32418

#### Applications

#### Blocking

#### Specificity

This peptide can be used with studies using BS5816 SLC8A1 pAb.

#### Purification & Purity

Synthetic peptide SLC8A1. (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.