

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



SLC25A12 Peptide

Cat No.: BS5616P

Background

Calcium signaling in mitochondria is important in order for it to function in response to a variety of extracellular stimuli. Signaling begins with Ca^{2+} entry in mitochondria via the Ca^{2+} uniporter followed by Ca^{2+} activation of three dehydrogenases in the mitochondrial matrix. ARALAR, the neuronal Ca^{2+} -binding mitochondrial aspartate-glutamate carrier, has Ca^{2+} binding domains facing the extramitochondrial space and functions in the malate-aspartate NADH shuttle (MAS). ARALAR is encoded by the SLC25A12 gene and is expressed in brain and skeletal muscle. ARALAR is required for the synthesis of brain aspartate and N-acetylaspartate and plays a role in myelin formation. It is also essential for the transmission of small Ca^{2+} signals to mitochondria via an increase in mitochondrial NADH. In addition, ARALAR is implicated in conferring susceptibility to schizophrenia.

Swiss-Prot

O75746

Applications

Blocking

Specificity

This peptide can be used with studies using BS5616 SLC25A12 pAb.

Purification & Purity

Synthetic peptide SLC25A12. (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.