

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



GluR- δ 2 (G860) Peptide

Cat No.: BS3029P

Background

Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels. Kainate/AMPA receptors co-localize with NMDA receptors in many synapses and consist of seven structurally related subunits, designated GluR-1 to -7, as well as GluR- δ 2. The kainate/AMPA receptors are primarily responsible for the fast excitatory neurotransmission by glutamate whereas the NMDA receptors are functionally characterized by a slow kinetic and a high permeability for Ca²⁺ ions. The NMDA receptors consist of five subunits: ϵ 1, 2, 3, 4 and one ζ subunit. The ζ subunit is expressed throughout the brainstem whereas the four ϵ subunits display limited distribution. In mice, mutations in the gene encoding GluR- δ 2 (GRID2) cause the Lurcher phenotype. The gene encoding human GluR- δ 2 maps to chromosome 4q22.

Swiss-Prot

O43424

Applications

Blocking

Specificity

This peptide can be used with studies using BS3029 GluR- δ 2 (G860) pAb.

Purification & Purity

Synthetic peptide GluR- δ 2 (G860). (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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