Effects of okaidic acid, a protein phosphatase inhibitor, on synaptic transmission at the crayfish neuromuscular junction

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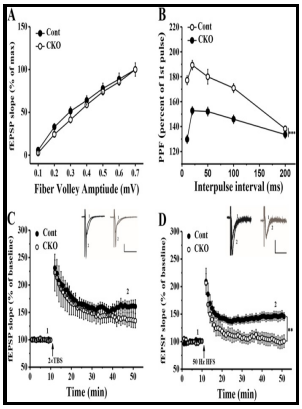

Description: -
-effects of okaidic acid, a protein phosphatase inhibitor, on synaptic transmission at the crayfish neuromuscular junction
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Taiwan zi ran zi yuan kai tuo shi xi lie -- 1
Canadian theses = Thèses canadienneseffècts of okaidic acid, a protein phosphatase inhibitor, on synaptic transmission at the crayfish neuromuscular junction
Notes: Thesis (M.Sc.)--University of Toronto, 1990.
This edition was published in 1990

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Tags: #Inhibition #of #mouse #neuromuscular #transmission #and #contractile #function #by #okadaic #acid #and #cantharidin

Airway nerves and protein phosphatases

Specifically, application of micromolar concentrations of OA in peripheral longitudinal muscle preparations leads to a dose-dependent increase in muscle tension, an increase in the relaxation rate of the muscle, and increased excitatory junction potentials following motor nerve stimulation. As a clinician, he is interested in preventing and treating acute mental illness among children with special attention to parenting and early childhood.

Protein phosphatase inhibitor okadaic acid enhances transmitter release at neuromuscular junctions

A and B , when MEPP frequency decreased to 0. Journal of Neuroscience 25: 3168—3180.

Inhibition of mouse neuromuscular transmission and contractile function by okadaic acid and cantharidin

Electrophysiological studies have shown that in a number of vessels, the electrical response to stimulation of perivascular sympathetic nerves is biphasic: an initial fast, transient depolarization or EJP of the vascular smooth muscle is followed by a slow, prolonged depolarization. Several previous studies demonstrated a relationship between an effect of MCD on spontaneous transmitter release, and the activity of several protein kinases in particular, protein kinases A and C, Ca 2+ calmodulin-dependent kinase Smith et al. The role of membrane cholesterol in neurotransmitter release from motor nerve terminals.

Protein phosphatase inhibitor okadaic acid enhances transmitter release at neuromuscular junctions

The effects of okadaic acid 0. In this review we will highlight a number of studies that have investigated the role of phosphatases in the regulation of airway nerve function.

Protein phosphatase inhibitor okadaic acid enhances transmitter release at neuromuscular junctions

It has been found that MCD treatment leads to the enhancement of NADPH oxidase activity in proximal renal tube cells Han et al. Stimuli were delivered at 0.

Airway nerves and protein phosphatases

A wide range of excitatory junction potentials, differing in amplitude, time course, and facilitation, was found. Identification of a binding motif in the S5 helix that confers cholesterol sensitivity to the TRPV1 ion channel. Horizontal lines indicate the application of MCD.

Protein phosphatase inhibitor okadaic acid enhances transmitter release at neuromuscular junctions

Electrical responses at nematode neuromuscular junctions. To test the hypothesis that continual phosphorylation and dephosphorylation of protein components of nerve terminals might be important determinants of synaptic efficacy, the effect of okadaic acid, a potent natural inhibitor of two serine threonine protein phosphatases phosphatase 1 and phosphatase 2A , was examined on synaptic transmission at frog cholinergic and lobster glutamatergic and GABAergic neuromuscular junctions. Intensity analysis was made on regions of interest.

Inhibition of mouse neuromuscular transmission and contractile function by okadaic acid and cantharidin, British Journal of Pharmacology

Values are normalized fluorescence the initial fluorescence before MCD addition was taken as 1. To prevent such an influence on the unloading curves we tried to minimize non-specific fluorescence by applying ADVASEP-7. These possibilities, however, are incompatible with the finding that OA and cantharidin did not augment tetanic contraction-time integral even during the period that twitch responses were augmented.

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