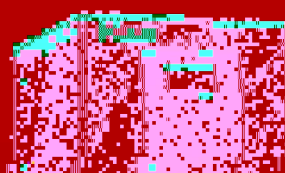


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Figure 1

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Abstract

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Abstract

Abstract

Figure 6

Diagram illustrating the proposed mechanism of action of the novel anti-epileptic drug (AED) in modulating neuronal excitability. The diagram shows a neuron with various ion channels and receptors. The AED is shown interacting with the voltage-gated sodium channel (Na_v), which is responsible for initiating and propagating action potentials. The AED binding site is located near the extracellular domain of the Na_v channel. The AED is shown blocking the channel, preventing the influx of sodium ions (Na⁺) and thus reducing the frequency and amplitude of action potentials. This leads to a decrease in neuronal excitability and seizure activity.

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