**Product Name:** Retigabine dihydrochloride

**CAS No.:** 150812-13-8

**Cat. No.:** HY-15471A

**MWT:** 376.25

**Formula:** C16H20Cl2FN3O2

**Purity:** >98%

**Solubility:** DMSO

**Mechanisms:**
Pathways: Membrane Transporter/Ion Channel; Target: Potassium Channel

**Biological Activity:**
Retigabine 2HCl (Ezogabine; D23129) is a Kv7.2-7.5 (KCNQ2-5) neuronal potassium channel opener with anticonvulsant activity.

**IC50 value:**
Target: Kv7.2-7.5
Retigabine (D-23129) is a novel antiepileptic compound with broad spectrum and potent anticonvulsant properties, both in vitro and in vivo. The compound was shown to activate a K+ current in neuronal cells. The pharmacology of the induced current displays concordance with the published pharmacology of the M-channel, which recently was correlated to the KCNQ2/3 K+ channel heteromultimer. Retigabine is a novel anticonvulsant with an unknown mechanism of action. Application of 10 μM retigabine to oocytes expressing the KCNQ2/3 heteromeric channel shifted both the activation threshold and voltage for half-activation by approximately 20 mV in the hyperpolarizing direction, leading to an increase in current amplitude at...

**References:**

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**Caution:** Not fully tested. For research purposes only

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