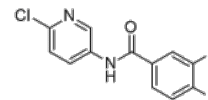


**Product Name** : ICA-27243  
**Cat. No.** : PC-60824  
**CAS No.** : 325457-89-4  
**Molecular Formula** : C<sub>12</sub>H<sub>7</sub>ClF<sub>2</sub>N<sub>2</sub>O  
**Molecular Weight** : 268.648  
**Target** : Potassium Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

ICA-27243 (ICA-207243) is a potent, selective KCNQ2/Q3 (**Kv7.2/Kv7.3**) potassium channel opener/activator with EC<sub>50</sub> of 0.38 μM.

ICA-27243 enhances both (86)Rb(+) efflux (EC<sub>50</sub>= 0.2 μM) and whole-cell currents in CHO cells stably expressing heteromultimeric KCNQ2/Q3 channels (EC<sub>50</sub>= 0.4 μM).

ICA-27243 is less effective at activating KCNQ4 and KCNQ3/Q5 and is selective over a wide range of neurotransmitter receptors and ion channels such as voltage-dependent sodium channels and GABA-gated chloride channels.

ICA-27243 (1-10 μM) reversibly suppresses seizure-like activity in an ex vivo hippocampal slice model of epilepsy and demonstrates in vivo anticonvulsant activity (ED<sub>50</sub>) = 8.4 mg/kg) in the mouse maximal electroshock epilepsy model.

## References

Amato G, et al. *ACS Med Chem Lett.* 2011 Mar 31;2(6):481-4.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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