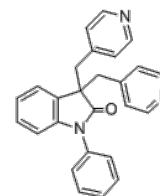


**Product Name** : Linopirdine  
**Cat. No.** : PC-63067  
**CAS No.** : 105431-72-9  
**Molecular Formula** : C<sub>26</sub>H<sub>21</sub>N<sub>3</sub>O  
**Molecular Weight** : 391.465  
**Target** : Potassium Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

Linopirdine (DUP-996, Linopirine) is a potent **Kv7** (KCNQ) voltage-gated potassium channels blocker.

Linopirdine blocks KV7.1+7.3 (KCNQ2+3)/M-currents (IC<sub>50</sub>=4-7 uM) and KV7.1 (KCNQ1) homomeric channels (IC<sub>50</sub>=8.9 uM).

Linopirdine inhibits M-type K<sup>+</sup> current, increases acetylcholine release in rat hippocampal CA1 neurons; active in vivo.

## References

Schnee ME, et al. *J Pharmacol Exp Ther*. 1998 Aug;286(2):709-17.

Wang HS, et al. *Science*. 1998 Dec 4;282(5395):1890-3.

Zaczek R, et al. *J Pharmacol Exp Ther*. 1998 May;285(2):724-30.

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

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