

Product Datasheet

Clobutinol

Catalog No. **BP-00041** · CAS **14860-49-2** · Form **free base** · Physical state **solid** · Version **1.0** · Revision **2026-09-24**

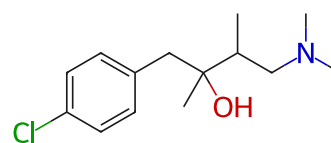
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Target Potassium Channel	Research area Cardiovascular Disease; Inflammation/Immunology
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Molecular formula **C₁₄H₂₂ClNO**

Molecular weight **255.7840**

STRUCTURE



DESCRIPTION

Clobutinol is a compound that has anti-tussive effects. Clobutinol affects heart rate and blood pressure, it can be used for cough related research.

BIOLOGICAL ACTIVITY

In Vitro

Clobutinol (10 μM) significantly inhibits the voltage-gated outward current in hERG-expressing cells[1].

Clobutinol (0-1000 μM) inhibits the outward current in hERG transfected cells with an IC50 value of 1.9 μM

In Vivo

Clobutinol (1-20 mg/kg; i.v. once) has no obvious effect on the airway of guinea-pigs.

Clobutinol (1 and 10 mg/kg; i.v. once) affects heart rate and mean blood pressure of guinea pigs

REFERENCES

- [1]. Deisemann H, et al. Effects of common antitussive drugs on the hERG potassium channel current. J Cardiovasc Pharmacol. 2008 Dec;52(6):494-9.
- [2]. Salonen RO. Comparison of the effects of two opioid antitussives, vadocaine hydrochloride, clobutinol and lidocaine on lung mechanics in guinea-pigs. Arzneimittelforschung. 1988 Apr;38(4A):609-12.
- [3]. Takahara A, Set al. Clobutinol delays ventricular repolarization in the guinea pig heart: comparison with cardiac effects of HERG K⁺ channel inhibitor E-4031. J Cardiovasc Pharmacol. 2009 Dec;54(6):552-9.

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