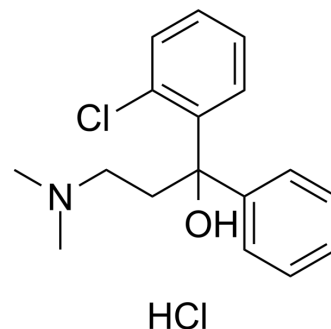


Chlophedianol hydrochloride

Cat. No.:	HY-A0161A
CAS No.:	511-13-7
Molecular Formula:	C ₁₇ H ₂₁ Cl ₂ NO
Molecular Weight:	326.26
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (383.13 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	3.0650 mL	15.3252 mL
5 mM			0.6130 mL	3.0650 mL	6.1301 mL
10 mM			0.3065 mL	1.5325 mL	3.0650 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Chlophedianol (Clofedanol) hydrochloride is an orally active and potent antitussive agent. Chlophedianol hydrochloride can be used for the research of acute cough due to upper respiratory tract infections (URIs)^{[1][2]}.

In Vivo

Chlophedianol (Clofedanol) hydrochloride (0-162 mg/kg; p.o. or s.c.; once) lowers the volume output of respiratory tract fluid in rabbits and cats^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Healthy, adult, male rabbits and cats ^[1]
Dosage:	2.0, 6.0, 18, 54 and 162 mg/kg (PO) or 1.0, 3.0, 9.0, 27 and 81 mg/kg (SC)
Administration:	Oral or subcutaneous administration, once
Result:	Lowered the volume output of respiratory tract fluid, slightly but significantly over a period of one to three hours after administration. Produced a decrease in the number of animals in which pledgets of mucus appeared in the respiratory tract.

REFERENCES

- [1]. Boyd EM, et al. Chlophedianol Hydrochloride: A New Antitussive Agent. Can Med Assoc J. 1960 Dec 17;83(25):1298-301.
- [2]. Paul IM. Therapeutic options for acute cough due to upper respiratory infections in children. Lung. 2012 Feb;190(1):41-4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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