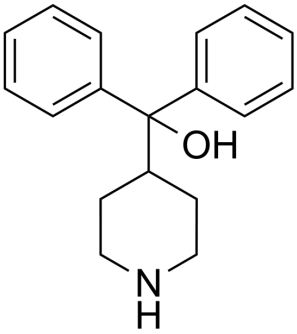
Azacyclonol



Cat. No.: HY-B0530

CAS No.: 115-46-8

Molecular Formula: $C_{18}H_{21}NO$

Molecular Weight: 267.37

Target: Histamine Receptor

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (374.01 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.7401 mL	18.7007 mL	37.4014 mL
5 mM	0.7480 mL	3.7401 mL	7.4803 mL
10 mM	0.3740 mL	1.8701 mL	3.7401 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.35 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.35 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Azacyclonol (γ-pipradol), a metabolite of Terfenadine, is a central depressant agent. Azacyclonol is a ganglion-blocking agent. Azacyclonol can be used to diminish psychoses-induced hallucinations[1][2][3].

In Vitro

Azacyclonol is formed from Terfenadine in rat liver[2].

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

In Vivo

Azacyclonol causes depressed activity in mice and rats[3].

Azacyclonol antagonizes increased coordination activity in mice induced by pipradrol, amphetamine, morphine and cocaine and prolongs Hexobarbital hypnosis[3].

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

CUSTOMER VALIDATION

- Research Square Print. 2022 Sep.

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REFERENCES

[1]. Brown DA, et, al. The effects of some centrally acting drugs on ganglionic transmission in the cat.

[2]. Jurima-Romet M, et, al. Induction of CYP3A and associated terfenadine N-dealkylation in rat hepatocytes cocultured with 3T3 cells. Cell Biol Toxicol. 1995 Dec;11(6):313-27.

[3]. BRAUN DL, et, al. The pharmacologic activity of alpha-(4-piperidyl)-benzhydrol hydrochloride (azacyclonol hydrochloride); an ataractive agent. J Pharmacol Exp Ther. 1956 Oct;118(2):153-61.

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