Ethybenztropine

Cat. No.: HY-118406

CAS No.: 524-83-4

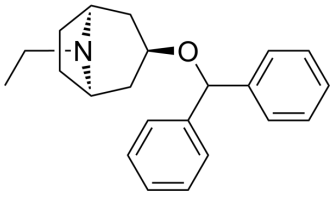
Molecular Formula: $C_{22}H_{27}NO$

Molecular Weight: 321.46

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ethybenztropine (Ponalid) is a muscarinic receptor blocker. Ethybenztropine is an anticholinergic and antihistaminergic agent[1].
IC_{50} & Target	Muscarinic Receptor[1]
In Vitro	Ethybenztropine (10 μM) inhibits the uptake of ^{3}H-DA in neostriatal slices. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ethybenztropine (25 μg, microinjected into mesencephalic NRM) blocks the hypertherrnic response of carbachol microinjection into nucleus raphe median (NRM) of rabbits[1]. Ethybenztropine (30-60 μg/kg, administered by the fourth ventricle) is effective in preventing arrhythmias in dogs[2]. Ethybenztropine (50 mg/kg, i.p.) reduces the catecholamines accumulation in rats[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Dogs with cardiac arrhythmias[2]
Dosage:	30-60 μg/kg
Administration:	Administered by the fourth ventricle
Result:	Produced slight hypotension (never exceeding a fall of 25 mm Hg) and slight sinus tachycardia. Converted arrhythmias to sinus rhythms.

REFERENCES

[1]. A K Saxena, et al. Presence of cholinoceptors in mesencephalic raphe nuclei concerned in thermoregulation in rabbits. Clin Exp Pharmacol Physiol. 1984 Mar-Apr;11(2):105-10.

[2]. M Rozear, et al. Effects of intracerebroventricular l-hyoscyamine, ethybenztropine and procaine on cardiac arrhythmias induced in dogs by pentylenetetrazol, picrotoxin or deslanoside. Int J Neuropharmacol. 1968 Jan;7(1):1-6.

[3]. LARS-OVE FARNEBO, et al. Effect of some antiparkinsonian drugs on catecholamine neurons. Journal of Pharmacy and Pharmacology, 1970, 22(10): 733-737.

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