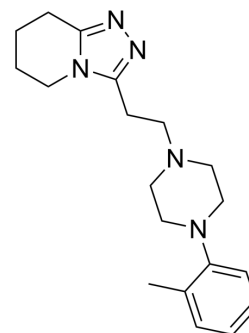


## Dapiprazole

<b>Cat. No.:</b>	HY-A0142
<b>CAS No.:</b>	72822-12-9
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>27</sub> N <sub>5</sub>
<b>Molecular Weight:</b>	325.45
<b>Target:</b>	Adrenergic Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Dapiprazole is a potent, selective and orally active alpha-1 adrenoceptor antagonist. Dapiprazole suppresses the opioid withdrawal symptoms. Dapiprazole is also used as eye drops for reversing mydriasis <sup>[1][2][3]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	α1-adrenergic receptor	
<b>In Vivo</b>	Dapiprazole hydrochloride (0-10 mg/kg or 0-3 mg/mice; i.p. or i.c.v.; once) reduces the overall severity of the opiate withdrawal symptoms in mice <sup>[1]</sup> .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Swiss Albino male CD-1 mice weighing 20 -25 g, acute dependence model <sup>[1]</sup>
	Dosage:	5, 7.5 and 10 mg/kg (i.p.) or 0.5, 1 and 3 mg/mice (i.c.v.), once
	Administration:	Intraperitoneal injection or intracerebroventricular administration, once
Result:	Decreased jumping behavior, head shakes and paw shakes when administered just before naloxone.	

### REFERENCES

- [1]. Valeri P, et al. Effects of dapiprazole, clonidine and yohimbine on the development of dependence and withdrawal behaviour in mice. *Drug Alcohol Depend.* 1989 Jan;23(1):73-7.
- [2]. Allinson RW, et al. Reversal of mydriasis by dapiprazole. *Ann Ophthalmol.* 1990 Apr;22(4):131-3, 138.
- [3]. Hou RH, et al. Arousal and the pupil: why diazepam-induced sedation is not accompanied by miosis. *Psychopharmacology (Berl).* 2007 Nov;195(1):41-59.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA