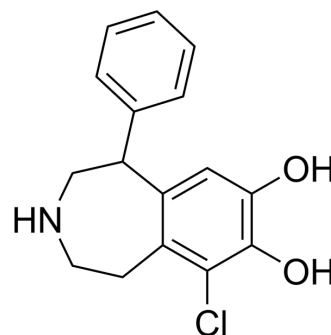


## SKF 81297

Cat. No.:	HY-12236A
CAS No.:	71636-61-8
Molecular Formula:	C <sub>16</sub> H <sub>16</sub> ClNO <sub>2</sub>
Molecular Weight:	289.76
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	SKF 81297 is a potent and selective dopamine D <sub>1</sub> receptor agonist <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	D <sub>1</sub> Receptor								
<b>In Vivo</b>	<p>SKF 81297 (0.05-0.3 mg/kg, i.m., once) stimulates motor behaviour of MPTP-lesioned monkeys<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Four male rhesus monkeys (Macaca mulatta, 7.0-11.3 kg)<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>0.05-0.3 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Injected intramuscularly (i.m.), once</td> </tr> <tr> <td>Result:</td> <td>Significantly increased rotational behaviour and right-sided hand use in unilateral MPTP-lesioned rhesus monkeys.</td> </tr> </table>	Animal Model:	Four male rhesus monkeys (Macaca mulatta, 7.0-11.3 kg) <sup>[1]</sup>	Dosage:	0.05-0.3 mg/kg	Administration:	Injected intramuscularly (i.m.), once	Result:	Significantly increased rotational behaviour and right-sided hand use in unilateral MPTP-lesioned rhesus monkeys.
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### REFERENCES

[1]. Vermeulen RJ, et al. The selective dopamine D<sub>1</sub> receptor agonist, SKF 81297, stimulates motor behaviour of MPTP-lesioned monkeys. *Eur J Pharmacol.* 1993 Apr 22;235(1):143-7.

[2]. Auger ML, et al. Amelioration of cognitive impairments induced by GABA hypofunction in the male rat prefrontal cortex by direct and indirect dopamine D<sub>1</sub> agonists SKF-81297 and d-Govadine. *Neuropharmacology.* 2020 Jan 1;162:107844.

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

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