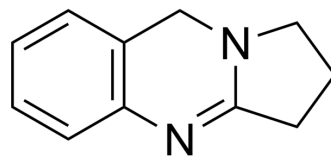


Desoxypeganine

Cat. No.:	HY-108048
CAS No.:	495-59-0
Molecular Formula:	C ₁₁ H ₁₂ N ₂
Molecular Weight:	172.23
Target:	Cholinesterase (ChE); Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Desoxypeganine (Deoxypeganine), an alkaloid, is a potent and orally active cholinesterase (BChE and AChE) and selective MAO-A inhibitor, with IC ₅₀ values of 2, 17, and 2 μM, respectively. Desoxypeganine can be used for alcohol abuse research ^[1] .										
IC₅₀ & Target	BChE 2 μM (IC ₅₀)	AChE 17 μM (IC ₅₀)	MAO-A 2 μM (IC ₅₀)								
In Vivo	<p>Desoxypeganine (10-30 mg/kg, gavage, once daily for 16 days) reduced ethanol intake and ethanol preference dose-dependently^[1].</p> <p>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>Female Alko alcohol (AA) rats (Thirty eight adult)^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10, 20, 30 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Gavage, once daily in a volume of 10 ml/kg at 6:00 pm, for 16 days</td> </tr> <tr> <td>Result:</td> <td>Abolished ethanol preference.</td> </tr> </table>			Animal Model:	Female Alko alcohol (AA) rats (Thirty eight adult) ^[1]	Dosage:	10, 20, 30 mg/kg	Administration:	Gavage, once daily in a volume of 10 ml/kg at 6:00 pm, for 16 days	Result:	Abolished ethanol preference.
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Result:	Abolished ethanol preference.										

REFERENCES

[1]. Doetkotte R, et al. Reduction of voluntary ethanol consumption in alcohol-preferring Alko alcohol (AA) rats by desoxypeganine and galanthamine. Eur J Pharmacol. 2005 Oct 17;522(1-3):72-7.

[2]. Zheng XY, et al. Acetylcholinesterase inhibitive activity-guided isolation of two new alkaloids from seeds of Peganum nigellastrum Bunge by an in vitro TLC-bioautographic assay. Arch Pharm Res. 2009 Sep;32(9):1245-51.

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

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