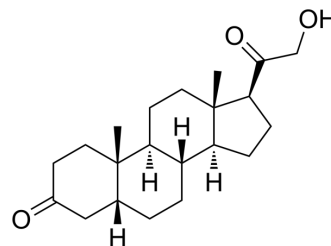


## Hydroxydione

<b>Cat. No.:</b>	HY-148156
<b>CAS No.:</b>	303-01-5
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>32</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	332.48
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Hydroxydione has an effect of general anesthetic. Hydroxydione is a neuroactive steroid it can be used for anaesthesia related research <sup>[1][2]</sup> .									
<b>In Vivo</b>	<p>Hydroxydione increases the duration of hexobarbital narcosis and repeats hexobarbital doses decrease the duration of hydroxydione narcosis<sup>[1]</sup>.</p> <p>Hydroxydione (5-100 mg/kg; i.v. once) produces a transient hypotension with little bradycardia and affects the respiration<sup>[2]</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>Cats with chloralose 60 to 80 mg/kg<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>5-100 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intravenous injection; 5-100 mg/kg once</td> </tr> <tr> <td>Result:</td> <td>Produce severe respiratory depression, but showed no effect on the tibialis in response to excitation of its motor nerve under the condition of chloralose. Produced the usual substantial sustained hypotension seen in chloralosed cats to response the nictitating membrane topreganglionic excitation with a dose of 10 mg/kg. Repressed the respiration in chloralosed cats after a rapid injection.</td> </tr> </table>		Animal Model:	Cats with chloralose 60 to 80 mg/kg <sup>[2]</sup>	Dosage:	5-100 mg/kg	Administration:	Intravenous injection; 5-100 mg/kg once	Result:	Produce severe respiratory depression, but showed no effect on the tibialis in response to excitation of its motor nerve under the condition of chloralose. Produced the usual substantial sustained hypotension seen in chloralosed cats to response the nictitating membrane topreganglionic excitation with a dose of 10 mg/kg. Repressed the respiration in chloralosed cats after a rapid injection.
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### REFERENCES

[1]. RUMKE CL. The influence of drugs on the duration of hexobarbital and hydroxydione narcosis in mice. Naunyn Schmiedebergs Arch Exp Pathol Pharmacol. 1963;244:519-30.

[2]. LERMAN LH, PATON WD. Experiments on the pharmacology of hydroxydione sodium succinate. Br J Pharmacol Chemother. 1960 Sep;15(3):458-65.

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**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