Melanotan II (MT-II) is an initiator of erection both in anesthetized and conscious rats

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ABSTRACT

MT-II at the highest dosing (1 mg/kg) displayed a proerectile-inducer activity in both urethane-anesthetized and conscious rats. Both techniques appear to be robust and reproducible.

References


Urethane-anesthetized rats

METHODS

Evaluation of the initiatory activity of MT-II on erectile function in urethane-anesthetized rats

- Urethane-anesthetized male Sprague-Dawley rats (225-250 g).
- Electrical stimulation (ES) of the cavernous nerve (30 s overall duration, 6V, 1 ms pulse).
- ICP was recorded for 90 minutes post injection.
- AUC displayed a proerectile-inducer activity in both urethane-anesthetized and conscious rats.

RESULTS

- Conclusions: Assessment of the proerectile activity of MT-II is available both in anesthetized and conscious rats.
- The plateau phase, delimited by the dotted green lines, corresponds to the autonomic component of penile erection, i.e. engorgement of the corpora with blood, due to the action of nNOS (Nitric Oxide Synthase).
- Results are expressed as the latency for the first erectile event to occur (s).
- The plateau phase, delimited by the dotted green lines, corresponds to the autonomic component of penile erection, i.e. engorgement of the corpora with blood, due to the action of nNOS (Nitric Oxide Synthase).
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