

Conference abstract PO-16

Antispasmodic Activity of Semi-Synthetic Secoisopimarane Derivatives

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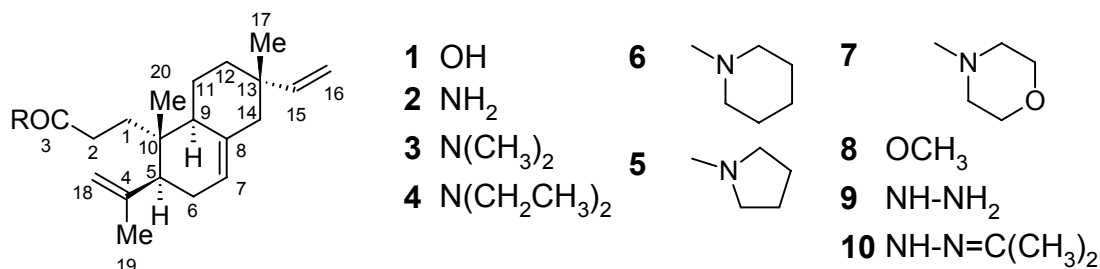
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The effects on ileal contraction of some synthetic derivatives of the bioactive [1–3] 3,4-secoisopimarane-4(18),7,15-trien-3-oic acid (**1**) isolated from *S. cinnabarina* are reported.



Strips of guinea pig ileum (GPI) were suspended in an organ bath and a resting tension of 1g was applied. Contractile responses were recorded isotonicly and expressed as percentage of maximal responses of acetylcholine (Ach, 10⁻⁶M, contact time 30 sec). The strips were treated with increasing non-cumulative concentrations of **1** derivatives (10⁻⁷–10⁻⁴ M, contact time 30 min before Ach). These compounds induced a dose-dependent reduction of the contractile activity of Ach, with the following decreasing order of IC₅₀: **6** (1x10⁻⁵M) > **4** (1.9x10⁻⁵M) > **7** (3.3x10⁻⁵M) = **9** (3.5x10⁻⁵M) > **1** (4.2x10⁻⁵M) > **3** (5.2x10⁻⁵M) = **5** (5.8x10⁻⁵M) = **2** (6x10⁻⁵M) = **10** (6x10⁻⁵M).

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