

Papers

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T-Cadinol: A Pharmacologically Active Constituent of Scented Myrrh: Introductory Pharmacological Characterization and High Field ^1H - and ^{13}C -NMR Data

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Further Information

Abstract

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Abstract

Fractionation of an ethyl acetate extract of scented myrrh (resin of *Commiphora guidottii* Chiov., Burseraceae), using the guinea pig ileum test to monitor pharmacological activity, resulted in isolation of the sesquiterpene (+)-T-cadinol. High field NMR spectroscopy yielded new detailed ^1H - and ^{13}C -NMR data for the compound. T-cadinol was shown to have a concentration-dependent smooth muscle relaxing effect on the isolated guinea pig ileum and a dose-dependent inhibitory effect on cholera toxin-induced intestinal hypersecretion in mice.

Key words

Scented myrrh - *Commiphora guidottii* - Burseraceae - T-cadinol - sesquiterpene - NMR - smooth muscle relaxing effect - intestine - cholera toxin - antidiarrhoeal effect

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