

Abstract:

Chromatographic separation of the roots of a Kenyan medicinal plant, *Clerodendrum eriophyllum*, led to the isolation of ten abietane diterpenoids (1-10), one of which (1) was isolated for the first time from a natural source. Using spectroscopic data, the structure of 1 was determined to be 12-hydroxy-8,12-abietadiene-3,11,14-trione. Circular dichroism (CD) spectra showed that the stereochemistry of compounds 1, 3, and 6-8 belongs to the normal series of abietane diterpenes, which confirmed the absolute stereochemistry of the isolated compounds. Compounds 1-10 were evaluated for their *in vitro* antiplasmodial, antileishmanial, antifungal and antibacterial activities. Compounds 3 and 7 exhibited potent antifungal activity (IC₅₀/MIC 0.58/1.25 and 0.96/2.5 microg/mL, respectively) against *C. neoformans*, whereas 3, 6 and 7 showed strong antibacterial activity against *Staphylococcus aureus* and methicillin-resistant *S. aureus* with IC₅₀/MIC values between 1.33-1.75/2.5-5 and 0.96-1.56/2.5 microg/mL, respectively. In addition, compounds 3 and 9 exhibited potent antileishmanial activity (IC₅₀ 0.08 and 0.20 microg/mL, respectively) against *L. donovani*, while 3 and 7 displayed weak antimalarial activity against *Plasmodium falciparum*, but 9 was inactive.