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New Furanoditerpenoids from *Croton jatrophoides*

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Abstract

Four furanoditerpenoids were isolated from roots of *Croton jatrophoides* (Euphorbiaceae) collected in Tanzania. In addition to the known compounds penduliflaworosin and teucvin (mallotucin A), a new teucvin isomer, which was named isoteucvin, and a furanoditerpenoid with a new skeleton, for which the name jatrophoidin was adopted, were isolated. Their structures were elucidated by spectroscopic methods such as ESI-MS and NMR, including ¹H-, ¹³C-, and two-dimensional NMR. The crystal structures of isoteucvin and jatrophoidin were solved using single-crystal X-ray diffraction, by which we also established the absolute configuration of jatrophoidin. The refined crystal structure of isoteucvin has the same (absolute) configuration as jatrophoidin, although the X-ray diffraction data of isoteucvin were not conclusive with respect to the absolute configuration.

Key words

Croton jatrophoides - Euphorbiaceae - diterpenoids - isoteucvin - jatrophoidin - absolute configuration