

New lignans from *Phyllanthodendron dunnianum*

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ABSTRACT

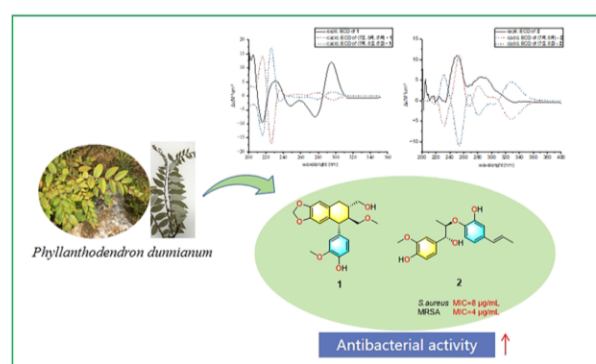
A new lignan phyllanins A (**1**) and a lignan phyllanins B (**2**) for which the absolute configuration was determined for the first time, along with four known lignans (**3–6**) were isolated from the branch and leaf extracts of *Phyllanthodendron dunnianum*. Their planar structures were mainly determined by a combination of 1D and 2D NMR, HRESIMS spectral analyses, and the absolute configurations of the compounds **1** and **2** were established by DFT GIAO ¹³C NMR and electronic circular dichroism (ECD) calculations. In addition, all these six lignans were firstly tested for the antibacterial activities against MRSA, *Staphylococcus aureus*, *Enterococcus faecalis*, *Pseudomonas aeruginosa* and *Escherichia coli*. Among these compounds, **2** and **5** showed potential antibacterial activities against MRSA and *S. aureus* with MIC values of 4 and 8 µg/mL, respectively.

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1. Introduction

The genus *Phyllanthus*, a prominent member of the Euphorbiaceae family, comprises over 700 species organised into 11 subgenera, primarily thriving in tropical and

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