

A new antibacterial octaketide and cytotoxic phenylethanoid glycosides from *Pogostemon cablin* (Blanco) Benth

Kim KH, Beemelmans C, Clardy J, Cao S (2015) A new antibacterial octaketide and cytotoxic phenylethanoid glycosides from *Pogostemon cablin* (Blanco) Benth *Bioorg. Med. Chem. Lett.* 14(25), 2834-2836.

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Abstract

A new octaketide, named cytosporone V (**1**), and two other known phenylethanoid glycosides (**2–3**), were isolated from the aerial parts of *Pogostemon cablin* (Blanco) Benth. The structure of **1** was elucidated by a combination of extensive spectroscopic analyses, including extensive 2D NMR and HR-MS. Compounds **1–3** displayed weak antibacterial activity against two gram-positive bacteria, *Bacillus subtilis* and *Staphylococcus aureus*. All isolates were also evaluated for their antiproliferative activities against four human tumor cell lines (A549, SK-OV-3, SK-MEL-2, and HCT-15). Compounds **2** and **3** showed significant cytotoxicity against A549, SK-OV-3, SK-MEL-2, and HCT-15 cell lines with IC₅₀ values ranging from 2.73 to 9.52 μ M.

Involved units

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doi: 10.1016/j.bmcl.2015.04.094

PMID: 25981688