

# Niruriflavone, a New Antioxidant Flavone Sulfonic Acid from *Phyllanthus niruri*

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A new flavone sulfonic acid **1** named niruriflavone was isolated from the 70% ethanolic extract of the whole plant of *Phyllanthus niruri* (Euphorbiaceae), together with 6,10,14-trimethyl-2-pentadecanone, hypophyllanthin, gallic acid, brevifolin carboxylic acid, methyl brevifolin carboxylate, *isoquercetin*, quercetin-3-O- $\beta$ -D-glucopyranosyl(1 $\rightarrow$ 4)- $\alpha$ -rhamnopyranoside, corilagin, and isocorilagin, whose structures were determined by spectroscopic methods and comparison with published data. In an ABTS cation radical reduction assay, niruriflavone (**1**) exhibited potent radical scavenging properties. A biological test system based on bioluminescence of the dinoflagellate *Lingulodinium polyedrum* did not reveal any prooxidant properties of **1** at 50  $\mu$ M.

**Key words:** *Phyllanthus niruri*, Niruriflavone, Antioxidant Activity, Bioluminescent Dinoflagellates, Toxicity