Antibacterial and Cytotoxic Activity of Prenylated Bicyclic Acylphloroglucinol Derivatives from *Hypericum amblycalyx*

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Two new bicyclic acylphloroglucinol derivatives, hypercalyxone A (1-[5,7-dihydroxy-2-methyl-3-(3-methyl-but-2-enyl)-2-(4-methyl-pent-3-enyl)-chroman-8-yl]-2-methyl-propan-1-one, **1**) and B (1-[5,7-dihydroxy-2-methyl-3-(3-methyl-but-2-enyl)-2-(4-methyl-pent-3-enyl)-chroman-8-yl]-2-methyl-butan-1-one, **2**), have been isolated from the petroleum ether extract of the aerial parts of *Hypericum amblycalyx*, together with two further compounds (1-[5,7-dihydroxy-2-methyl-2-(4-methyl-pent-3-enyl)-chroman-8-yl]-2-methyl-propan-1-one, **3** and 1-[5,7-dihydroxy-2-methyl-2-(4-methyl-pent-3-enyl)-chroman-8-yl]-2-methyl-butan-1-one, **4**), which have been described only as semi-synthetic products. In addition, the known triterpene lup-20(29)-en-3-one was obtained. Structure elucidation was based on 1D and 2D NMR studies, as well as on data derived from mass spectrometry. The four acylphloroglucinol derivatives were evaluated for their cytotoxic and antibacterial activity. All compounds showed moderate cytotoxic activity against KB and Jurkat T cancer cells. Especially compounds **3** and **4** exhibited a strong antibacterial activity against different Gram-positive strains.

Key words: Hypericum amblycalyx, Acylphloroglucinols, Antibacterial Activity