Cytotoxic Chalcones and Flavanones from the Tree Bark of *Cryptocarya costata*

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A new flavanone, 7-hydroxy-5,6-dimethoxyflavanone (**1**), together with three other flavonoids, didymocarpin (**2**), 2′,4′-dihydroxy-5′,6′-dimethoxychalcone (**3**), and isodidymocarpin (**4**), had been isolated from the methanol extract of the tree bark of *Cryptocarya costata*. The structures of these compounds were determined based on spectral evidence, including UV, IR, 1-D and 2-D NMR, and mass spectra. Cytotoxic properties of compounds **1**–**4** were evaluated against murine leukemia P-388 cells. The chalcones **3** and **4** were found to have substantial cytotoxicity with IC_{50} of 5.7 and 11.1 μM, respectively.

Key words: 7-Hydroxy-5,6-dimethoxyflavanone, *Cryptocarya costata*, Murine Leukemia P-388 Cells