



Virtual Conference on Chemistry and its Applications

Chemical Sciences for the New Decade

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The Cytotoxic and Antibacterial Assays of Artonin E Isolated from the Branch Bark of the *Artocarpus kemando* Miq.

T. Suhartati*, V. Andini, Yandri, and S. Hadi*

*Department of Chemistry, Faculty of Mathematics and Natural Sciences, University of Lampung,
Bandar Lampung, Lampung 35145, Indonesia*

*Authors for correspondence e-mails: tati.suhartati@fmipa.unila.ac.id (T. S.); sutopo.hadi@fmipa.unila.ac.id (S. H.)

Artocarpus kemando Miq. is one of Indonesia's endemic plants which is rich in flavonoid compounds and has a lot of bioactivity. From the branch bark of this plant obtained from Karang Anyar, Klaten, Penengah, South Lampung, Indonesia, a flavonoid compound, artonin E was isolated. This compound was identified by TLC using standard compounds, and its UV-Vis and IR spectra were compared with literature data. Cytotoxic test using leukemia cells P-388, the isolated artonin E showed strong anticancer activity with IC₅₀ of 1.56 µg/mL, whereas in the antibacterial test against *Bacillus subtilis* and *Escherichia coli*, this compound showed a moderate antibacterial activity.