

**STRUKTUR MOLEKUL SENYAWA ASAM 3,4 SECO
BRIONONAT DALAM KULIT BATANG
TANAMAN KECAPI KERA
(*Sandoricum emarginatum* Hiern)**

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ABSTRACT

Kecapi kera (Sandoricum emarginatum Hiern) is a plant grown in Sumatera, Indonesia belong to the familia Meliaceae. There are two species of Sandoricum occurred in Indonesia, Sandoricum koetjape and Sandoricum emarginatum. The S.koetjape plant has been investigated and contains some chemical compounds and there are two of which have a citotoxic activity to the cell culture P 388, but Sandoricum emarginatum not yet investigated. The aim of this research was to determinate the molecular structure compound of stem bark of Kecapi kera which soluble in chloroform.

The chemical compound in stem bark of Kecapi kera was extracted with petroleum ether, chloroform and methanol, respectively. Chloroform fraction was separated and isolated with column chromatography, n-hexane-ethyl acetate as mobile phase and silica gel as stationary phase. Molecular structure determination was carried out using spectroscopy method such IR, NMR and MS. As the result a white crystal, 3,4-seco bryo-nonat could be isolated. The crystal has a needle like form and had melting point between 226-228°C.