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RESVERATROL OLIGOMERS FROM *DIPTEROCARPUS HASSELTII*: CYTOTOXIC EFFECT AND CHEMOTAXONOMIC SIGNIFICANCE

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ABSTRACT

Two resveratrol tetramers, (-)-vaticanol B and (-)-hopeaphenol, were isolated from acetone extract of the tree bark of *Dipterocarpus hasseltii* (Dipterocarpaceae), together with the known resveratrol trimer, (-)-α-viniferin. The structures of these compounds were established based on spectroscopic evidence, UV, IR, ^{1}H-NMR, ^{13}C-NMR and determined by comparison with the standard compounds. The cytotoxic activities of these compounds were evaluated against murine leukaemia P-388 cells. The IC_{50} values of all compounds were 42.2, 5.0 and 17.5 µg/ml, respectively. In addition, chemotaxonomic significance relationship between *Dipterocarpus, Shorea* and *Vatica* will also be briefly discussed.

Keywords: Chemotaxonomy, Cytotoxic, Dipterocarpaceae, D. hasseltii,Resveratrol tetramer