

Jurnal Ilmiah
FARMASI

(Scientific Journal of Pharmacy)



JURNAL ILMIAH FARMASI
(SCIENTIFIC JOURNAL OF PHARMACY)

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Telp. (0274) 896439 ext. 3047
Email: jif@uii.ac.id

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

Muhtadi^{1*}, Euis H. Hakim², Yana M. Syah², Lia D. Juliawaty², Jalifah Latip³

¹ Faculty of Pharmacy, Universitas Muhammadiyah Surakarta

Jalan A. Yani Tromol Pos I Pabelan Kartasura, Surakarta 57102, Indonesia

² Natural Products Research Group, Departement of Chemistry, Institut Teknologi Bandung,
Jalan Ganeca 10 Bandung 40132, Indonesia.

³ School of Chemical Sciences & Food Technology, Faculty of Science and Technology,
Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor D.E., Malaysia

*e-mail: muhtadi@ums.ac.id

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, ¹H-NMR, ¹³C-NMR and determined by comparison with the standard compounds. The cytotoxic activities of these compounds were evaluated against murine leukaemia P-388 cells. The IC₅₀ values of all compounds were 42.2, 5.0 and 17.5 μ g/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