

8-HIDROKSIISOKAPNOLAKTON-2',3'-DIOL, KUMARIN BIOAKTIF DARI Micromelum minutum

Title	8-HIDROKSIISOKAPNOLAKTON-2',3'-DIOL, KUMARIN BIOAKTIF DARI Micromelum minutum
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Abstract	<p>Separation of leaves chloroform extract of <i>Micromelum minutum</i> (Rutaceae) yielded a new coumarin, 8-hydroxyisocapnolactone-2',3'-diol. The structure of this compound was characterized by UV, IR, MS and NMR spectroscopic methods, including ¹H, ¹³C, HSQC, COSY, HMBC dan NOESY experiments. This compound is significantly toksisk towards several cancer cell lines (CEM-SS, HL60, HeLa, HepG2, MCF7, T47D and NS1), active against chloroquin sensitive (D10) and resistance (FCR3) <i>Plasmodium falciparum</i> and showed strong antibacterial activity against <i>Bacillus Subtilis</i> mutan, <i>Bacillus. Subtilis</i> wild type, <i>Pseudomonas Aeruginosa</i> dan <i>Staphylococcus aureus</i> resisten meticilin). ABSTRAK Pemisahan ekstrak kloroform daun <i>Micromelum minutum</i> (Rutaceae) menghasilkan suatu kumarin baru, 8-hidroksiisokapnolakton-2',3'-diol yang strukturnya diidentifikasi secara spektroskopi UV, IR, MS dan NMR termasuk ¹H, ¹³C, HSQC, COSY, HMBC dan NOESY. Senyawa tersebut secara signifikan toksik terhadap beberapa sel kanker (CEM-SS, HL60, HeLa, HepG2, MCF7, T47D dan NS1), aktif terhadap <i>Plasmodium falciparum</i> yang sensitif (D10) maupun resisten (FCR3) kloroquin dan mempunyai aktivitas antibakteri yang kuat terhadap <i>Bacillus Subtilis</i> mutan, <i>Bacillus. Subtilis</i> wild type, <i>Pseudomonas Aeruginosa</i> dan <i>Staphylococcus aureus</i> resisten meticilin).</p>
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