Diosgenin Glucuronides from *Solanum lyratum* and their Cytotoxicity against Tumor Cell Lines

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Bioassay-directed fractionation of the cytotoxicity active fraction of the whole plant from *Solanum lyratum* led to the isolation of a new steroidal saponin, diosgenin 3-\(O\)-\(\beta\)-d-glucopyranosiduronic acid methyl ester (2), as well as four known compounds, diosgenin (1), diosgenin 3-\(O\)-\(\beta\)-d-glucopyranosiduronic acid (3), diosgenin 3-\(O\)-\(\alpha\)-l-rhamnopyranosyl-(1→2)-\(\beta\)-d-glucopyranosiduronic acid (4), diosgenin 3-\(O\)-\(\alpha\)-l-rhamnopyranosyl-(1→2)-\(\beta\)-d-glucuroniduronic acid methyl ester (5). The structures of the isolated compounds were elucidated on the basis of their spectral data and chemical evidences. Compound 1 was isolated for the first time from this plant, and compound 3 was isolated as a new natural product. Cytotoxic activities of the isolated compounds were evaluated and the cytotoxicities of compounds 2–5 reported for the first time.

Key words: *Solanum lyratum*, Cytotoxicity, Diosgenin Glucuronides