



Anti-inflammatory Activity of Chemical Constituents Isolated from *Peristrophe roxburghiana*

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SUMMARY. A phytochemical investigation on *Peristrophe roxburghiana* (Schult.) Brem. resulted in the isolation of 11 compounds, identified as β -sitosterol (**1**), β -daucosterol (**2**), coumarin (**3**), 1-octadecanol (**4**), allantoin (**5**), lupeol (**6**), oleanolic acid (**7**), 3-acetyl oleanolic acid (**8**), cyanidin (**9**), cyanidin-3-O- β -D-glucoside (**10**), peristrophine (**11**) by analysis of spectroscopic data and comparison with literature. Anti-inflammatory activity of these compounds was carried out in lipopolysaccharide (LPS)-simulated RAW 264.7 cells and carrageenan-induced inflammation on BALB/c mice. Rats and cell treated with PR and eight compounds showed significant ($p < 0.05$) anti-inflammatory effects as evidence from normal cytokines TNF- α , IL-1 β , and IL-6 levels. Significantly anti-inflammatory activity of compounds **3**, **8** and **11** is reported for the first time.

KEY WORDS: Anti-inflammatory, Chemical constituents, Cytokines assay, *Peristrophe roxburghiana*.

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