

Title of Article: Bioactive compounds from Rumex plants

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Abstract

Two new naphthalene acylglucosides, rumexneposides A (1) and B (2), together with 12 known compounds (3-14), were isolated from the roots of *Rumex nepalensis*. Their structures were established by chemical and spectroscopic methods. The biological activities of compounds 1-14 as well as an additional 11 compounds previously isolated from *R. nepalensis* and *Rumex hastatus* (15-25) were evaluated against *Mycobacterium tuberculosis*, *para*-aminobenzoic acid (*pAba*) pathway, and a panel of human cancer cell lines. The results showed that compound 15 was the most active against *M. tuberculosis* with an MIC value of 2.85 μM similar to that of isoniazid. Compound 5 could inhibit *pAba* synthetic pathway with an MIC value of 12.6 μM , comparable to that of positive control abyssomicin C, representing a new example of the rare *pAba* pathway inhibitors.