

Apigenin Di- and trirhamnoside from *Asplenium normale* in Malaysia

Abstract

Two new flavone rhamnosides, apigenin 7-O- α -L-rhamnopyranosyl- (1 \rightarrow 4)-O- α -L-rhamnopyranoside and apigenin 7-O- α -L- rhamnopyranosyl-(1 \rightarrow 4)-O- α -L-rhamnopyranoside-4'-O- α -L- rhamnopyranoside were isolated from the fronds of *Asplenium normale* D. Don, together with two known C-glycosylflavones, vicenin-2 and lucenin-2. The chemical structures of the isolated glycosides were established by UV, LC-MS, characterization of acid hydrolysates, and ¹H and ¹³C NMR spectroscopy.