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# Studies on the constituents of Cudrania tricuspidata 

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## Congress Abstract

Cudrania tricuspidata (Moraceae), which is a deciduous tree, widely distributed in Korea and China, has been traditionally used for the treatment of lumbago, hemoptysis, and contusion. As part of our search for bioactive plant metabolites, we have investigated constituents of this plant. The MeOH extract of the roots of C.tricuspidata was partitioned with EtOAc and $\mathrm{H}_{2} \mathrm{O}$. The EtOAc-soluble fraction was separated repeatedly by various column chromatografies to yiled a new prenylated xanthone (1) and two new prenylated flavonoids (2 and $\mathbf{7}$ ), together with nineteen known compounds. The structures of these compounds were elucidated by extensive spectroscopic analyses including 1D-, 2D-NMR and MS. The antibacterial activities against MRSA as well as the antifungal activities against Aspergillus niger, Candida albicans, Penicillium sp., Rhizopus sp. and Trichophyton sp. of isolated compounds were evaluated. The structure elucidation and the antimicrobial activities of these compounds will be presented.

