

[Chem. Pharm. Bull., 41, 1415-1417 (1993)]

[Lab. of Pharmacognosy]

Abietan Diterpenes from *Clerodendron cryptophyllum*.XIAO-DRONG TIAN, ZHI-DA MIN, NING XIE, YAN LEI, ZI-YUE TIAN, QI-TAI
ZHENG, REN-NAN ZU, TOSHIYUKI TANAKA, MUNEKAZU INUMA*, MIZUO MIZUNO

Two novel abietane derivatives, cryptophyllones A and B, together with six known compounds, teuvincenone F, uncinatone, sugiol, fredelin, clerodolone, stigmasta-5,22, 25-trienol and clerosterol, were isolated from the stem of *Clerodendron cryptophyllum*. One of the abietane diterpenes, cryptophyllone A, possesses a rearranged-abietane skeleton which contains a 17(15-16)-abeo-abietane framework. The stereostructure proposed for cryptophyllone A was characterized as 16(S)-12,16-epoxy-11,14-dihydro-6-methoxy-17(15-16)-abeo-abieta-5,8,11,13-tetraen-7-one on the basis of spectral analysis and X-ray diffraction.

[Phytochemistry, 33, 1247-1248 (1993)]

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Spectral Characters of a Complex Flavonoid Isolated from the Farinose Exudate of *Pityrogramma calomelanos*.MUNEKAZU INUMA*, TOSHIYUKI TANAKA, FUJIO ASAI,
KEN-ICHI MIYACHI, ECKARD WOLLENWEBER

A complex flavonoid, previously referred to as D-2/b, was isolated from the farinose frond exudate of the fern *Pityrogramma calomelanos* in pure state. Its earlier suggested structure, 8-(2-carboxyl-phenylethyl)-5,7-dihydroxyflavone-lactone, is confirmed by complete 2D NMR analysis.

[Phytochemistry, 33, 1241-1245 (1993)]

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Five Flavonoid Compounds from *Echinosophora koreensis*.MUNEKAZU INUMA*, MASAYOSHI OHYAMA, TOSHIYUKI TANAKA,
MIZUO MIZUNO, SOON-KEUN HONG

Further investigation of the phenolic compounds in the roots and stems of *Echinosophora koreensis* led to the isolation of three new isoflavanones from the roots and 14 compounds, including two new flavanones, from the stems. Their structures were determined by means of spectral analysis to be 3,5,7,4'-tetrahydroxy-2'-methoxy-3'-isoprenylisoflavanone (kenusanone F), 5,7,3'-trihydroxy-4'-methoxyisoflavanone (kenusanone G) and 8-geranyl-5,7,2',4'-tetrahydroxyisoflavanone (kenusanone H) as root constituents.