

[Heterocycles, 33, 673-695 (1992)]

[Lab. of Pharmacognosy]

Radioimmunoassay of Iridoid Glucosides : Part 1. General methods for Preparation of the Haptens and the Conjugates with a protein of this series of glucosides.

KEN-ICHIRO INOUE*, MASAMI ONO, HIROTOSHI NAKAJIMA, IKUKO FUJIE,
HIROYUKI INOUE, TETSURO FUJITA

In order to obtain antibodies specific to three key intermediates, 7-dexyloganin, 7-deoxy-8-epiloganin and 10-deoxygeniposide, in the biosynthesis of iridoid glucosides in behalf of their microdetermination by a radioimmunoassay technique in various plant extracts, we have synthesized, starting with suitable natural iridoid glucosides, three optically pure intermediates from which we in turn prepared their haptens and conjugates to bovine serum albumin.

[Phytochemistry, 31, 1277-1280 (1992)]

[Lab. of Pharmacognosy]

Secoiridoid, Coumarin and Coumarin-secoiridoidglucosides from *Fraxinus chinensis*.

HIROSHI KUWAJIMA, MASAMI MORITA, KIYOKAZU TAKAISHI, KEN-ICHIRO INOUE*,
TETSURO FUJITA, ZHENG-DAN HE, CHONG-REN YANG

Besides the known glucosides, oleuropein, neoleuropein and cichorin, a new secoiridoid glucoside, frachinoside, was isolated from the leaves of *Fraxinus chinensis* and its structure elucidated.

[Phytochemistry, 31, 2143-2145 (1992)]

[Lab. of Pharmacognosy]

A Secoiridoid Glucoside from *Fraxinus formosana*.

TAKAO TANAHASHI, HIROKO WATANABE, ATSUKO ITOH, NAOTAKA NAGAKURA,
KEN-ICHIRO INOUE*, MASAMI ONO, TETSURO FUJITA, CHENG-CHANG CHEN

A new secoiridoid glucosides, fraxiformoside, was isolated from *Fraxinus formosana*, together with the known secoiridoid glucosides, ligustroside and isoligustroside. The structure elucidation of fraxiformoside by spectroscopic and chemical studies is described.