

New secoiridoids from *Ligustrum ovalifolium* and their hypotensive activity

Mohammed Hosny, Ehab A. Ragab, Abd El-salam I. Mohammed, Usama Y. Shaheen
Al-Azhar University, Faculty of Pharmacy, Pharmacognosy Department, Cairo, Egypt.

ABSTRACT

New Secoiridoid glucosides 1-5; ligustalosite A methyl hemiacetal 1, ligustalosite B methyl hemiacetal 2, ligustalosite A dimethyl acetal 3 ligustalosite A butyl-methyl acetal 4, and ligustalosite B butyl hemiacetal 5 have been isolated from the leaves of *Ligustrum ovalifolium* L. along with five known secoiridoids; ligustalosite B dimethyl acetal 6, 10-hydroxy oleuropein 7, 10-hydroxy ligstroside 8, oleuropein 9 and ligstroside 10, one known iridoid; loganin 11 and two known phenethyl alcohol glucosides; 3,4-di hydroxyphenylethyl-beta-D-glucoside 12 and p-hydroxyphenylethyl-beta-D-glucoside 13. The structures have been elucidated by spectroscopic means including 1D NMR (¹H, ¹³C, and DEPT), 2D NMR (COSY, HMQC and HMBC experiments), UV, IR and FAB-MS (positive mode). Both n-BuOH fraction and the isolated new compounds 1-5 were evaluated for their hypotensive activity on experimental animal. The n-BuOH fraction showed good activity; however, the activity of the isolated new compounds 1-5 did not particularly strong.

KEYWORDS

Ligustrum ovalifolium . Oleaceae . Secoiridoid glucosides . Iridoid glucosides and Phenylethanoids

REFERENCES

2026 Phcog.Net - All rights reserved. Published on the JrnIXPress platform.