

## diones from Uvaria lucida.

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## Abstract:

A chemical investigation of the chloroform extract of the roots of Uvaria ludida Benth. (Annonaceae), an important African traditional medicine, led to the isolation of six new compounds; three pyrenes, 2-hydroxy-1,8-dimethoxypyrene (1), 8-methoxy-1,2-methylenedioxypyrene (2), and 7-hydroxy-8-methoxy-1,2-methylenedioxypyrene (3), two pyrenediones, 2-hydroxy-1,8-pyrenedione (4) and 2-methoxy-1,8-pyrenedione (5), and a sesquiterpene, (-)-10-oxo-isodauc-3-en-15-oic acid (6), together with eight known compounds (7-14). The structural elucidation by spectroscopic studies of the compounds isolated is described. While pyrenes did not exhibit strong cytotoxicity against human promyelocytic leukemia HL-60 cells, pyrenediones showed strong cytotoxicity. The IC(50) of 4 was 70 ng mL(-1), which was close to that of etoposide (IC(50) = 60 ng mL(-1)).