



New Chromone and Triglyceride from Cucumis melo Seeds

Sabrin R. M. Ibrahim

Abstract:

Re-investigation of the MeOH extract of the seeds of *Cucumis melo* L. var. *reticulatus* (Cucurbitaceae) led to the isolation of a new chromone derivative (5,7-dihydroxy-2-[2-(3-methoxy-4-hydroxyphenyl)ethyl]chromone (5) and a triglyceride (1,3-di-(6Z,9Z)-docosa-6,9-dienoyl-2-(6Z) hexacos-6-enoylglycerol (1), together with three known compounds; β -spinasterol (2), stigmasta-7,22,25-trien-3-ol (3), and D:B-friedoolean-5-ene-3- β -ol (4), are reported from this species for the first time. Their structures were determined by extensive 1D (¹H, ¹³C, and DEPT) and 2D (1H-1H COSY, HMQC, and HMBC) NMR and mass spectral measurements. Compound 5 displayed significant cytotoxic activity against L5178Y cells, with an ED₅₀ of 5 μ M. The MeOH extract and 5 showed antioxidant activity using the DPPH assay.

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