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Xanthone derivatives from *Cratoxylum formosum* (Jack) Dyer subsp. *pruniflorum* (Kurz) Gogelin and their chemotaxonomic signific...



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Highlights

- A new and seven known xanthoness were isolated from the species *Cratoxylum formosum*.
- Compound **1** represents the first example of the 4-COOH group of xanthoness from natural products.

preparative HPLC was performed on an Agilent 1260 LC series with a DAD detector using an Agilent Eclipse XDB-C18 column (9.4×250 mm, 5 μm). Silica gel (Qing Dao Hai Yang Chemical Group Co.; 200–300 mesh), octadecylsilyl silica gel (YMC; 12 nm–50 μm) were used for column...

Chemotaxonomic significance

In the present study, eight biogenetically related xanthone derivatives (**1–8**) were isolated from the stems of *C. formosum*. These compounds are found for the first time in the investigated plant. The obtained results differed significantly from those published previously (Juanda et al., 2019; Son, 2020). The eight isolates (**1–8**) were newly identified in the genus *Cratoxylum*. Compounds **1**, **2**, and **7** were also newly identified in the family Clusiaceae.

Cratoxanthone (**1**) as a new xanthone isolated and ...

CRedit authorship contribution statement

De-Cai Dai: Writing - original draft, Separation of compounds and Funding acquisition. **Xue-Feng Xu and Yu Zhang**: Separation of compounds. **Hao Yan**: Writing - review/editing, Structural identification....

Declaration of competing interest

The authors declare that they have no known competing financial interests or personal relationships that could have appeared to influence the work reported in this paper....

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References (29)

G.J. Bennett *et al.*
Phytochemistry (1993)

O.R. Gottlieb *et al.*
Phytochemistry (1970)

C. Kaewpiboon *et al.*
Bioorg. Med. Chem. Lett (2018)

W. Mahabusarakam *et al.*
Phytochem. Lett. (2008)

L.H.D. Nguyen *et al.*
Phytochemistry (1999)

S. Walia *et al.*