



Isolated Xanthenes from *Lisotrigona furva* Propolis in Vietnam

Le Nguyen THANH^{1*}, Ha Thi THOA¹, Vu Thi Kim OANH¹, Diep Thi Lan PHUONG², Hoang Thi VAN^{3,4}, Nguyen Quynh CHI⁴, Tran Huu GIAP¹, Nguyen Thi Tu OANH¹, Nguyen Thi Minh HANG¹, Nguyen Van HUNG¹, Chau Van MINH¹, Vassya BANKOVA⁵

¹ Institute of Marine Biochemistry, Vietnam Academy of Science and Technology, Hanoi, Vietnam

² Department of Chemistry, Quy Nhon University, Binh Dinh, Vietnam

³ Department of Pharmacy, Duytan University, Danang, Vietnam

⁴ Hanoi University of Pharmacy, Hanoi, Vietnam

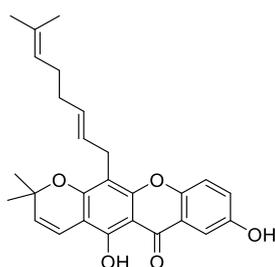
⁵ Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia, Bulgaria

Received/Geliş Tarihi: 08/10/2018, Accepted/ Kabul Tarihi: 19/10/2018

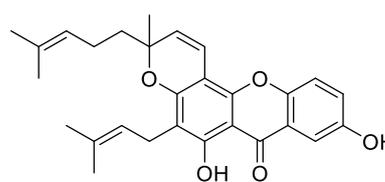
*Corresponding author /Yazışılan yazar

Abstract

Propolis from stingless bees in Vietnam has been used in traditional medicine to improve health and prevent diseases. However, there have been few investigations on the chemical constituents and bioactivity of Vietnamese stingless bee propolis. This work studied the chemical composition of the stingless bee propolis collected from the nests of *Lisotrigona furva* in Binh Dinh province, Vietnam using combined chromatographic methods. The chemical structures of isolated compounds were determined by MS, NMR spectral analysis. Several xanthenes including cochichinone A, cochichinone I, cochichinone J, cratoxylumxanthone B, α -mangostanin and pruniflorone S were isolated from the ethyl acetate extract of *Lisotrigona furva* propolis. This is the first report on the chemical constituents of propolis from *Lisotrigona* species. *Cratoxylum cochinchinense* (Hypericaceae) is the plant source for the stingless bee *Lisotrigona furva* propolis.



Conchinchinone I



Conchinchinone J

Acknowledgements: This research is funded by Vietnam Academy of Science and Technology under grant number VAST.HTQT.BULGARIA.02/17-18.

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