Bioactive eudesmane sesquiterpenes from *Artabotrys hongkongensis* Hance

Qing Wen\(^{a,b,1}\), Yan-Ping Liu\(^{b,1}\), Gui Yan\(^{a,b}\), Shuo Yang\(^{b}\), Shi Hu\(^{a,b}\), Jing Hua\(^{c}\), Wen-Qing Yin\(^{c}\), Guang-Ying Chen\(^{a,b,*}\), Yan-Hui Fu\(^{a,b,*}\)

\(^{a}\) College of Pharmacy, Fujian University of Traditional Chinese Medicine, Fuzhou 350122, P. R. China

\(^{b}\) Key Laboratory of Tropical Medicinal Plant Chemistry of Ministry of Education, Hainan Normal University, Haikou 571158, P. R. China

\(^{c}\) State Key Laboratory Cultivation Base for the Chemistry and Molecular Engineering of Medicinal Resources of Ministry of Science and Technology, Guangxi Normal University, Guilin 541004, P. R. China

*Corresponding author.
Tel.: +86-898-65889422; Fax: +86-898-65889422
E-mail: Yan-Hui Fu, fuyanhui80@163.com; Guang-Ying Chen, chgying123@163.com

**ABSTRACT**

A new naturally occurring trinoreudesmane sesquiterpene, artahongkongol A (1), together with seven known eudesmane sesquiterpenes (2–8), was isolated from the stems and leaves of *Artabotrys hongkongensis* Hance. Among them, 1 is a rare trinoreudesmane sesquiterpene containing 12 carbon atoms on the carbon skeleton. All known compounds (2–8) were isolated from the genus *Artabotrys* for the first time. The structure of 1 was elucidated by extensive spectroscopic methods and the known compounds were identified by comparisons with data reported in the literature. All isolated compounds were evaluated for their cytotoxicities against five human cancer cell lines: HL-60, SMMC-7721, A-549, MCF-7 and SW480 *in vitro*. Compounds 1–8 showed significant inhibitory effects against various human cancer cell lines with IC\(_{50}\) values ranging from 0.57 to 15.68 μM.

**Keywords:** *Artabotrys hongkongensis* Hance; trinoreudesmane sesquiterpene; artahongkongol A; cytotoxicities.
List of Supplementary Material

**Figure S1.** Selected 2D NMR correlations for artahongkongol A (1).

**Figure S2.** $^1$H-NMR spectrum of artahongkongol A (1) in CDCl$_3$.

**Figure S3.** $^{13}$C-NMR spectrum of artahongkongol A (1) in CDCl$_3$.

**Figure S4.** HSQC spectrum of artahongkongol A (1) in CDCl$_3$.

**Figure S5.** HMBC spectrum of artahongkongol A (1) in CDCl$_3$.

**Figure S6.** $^1$H-$^1$H COSY spectrum of artahongkongol A (1) in CDCl$_3$.

**Figure S7.** ROESY spectrum of artahongkongol A (1) in CDCl$_3$. 

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Figure S2. $^1$H-NMR spectrum of artahongkongol A (1) in CDCl$_3$. 

**Figure S3.** $^{13}$C-NMR spectrum of artahongkongol A (1) in CDCl$_3$.

**Figure S4.** HSQC spectrum of artahongkongol A (1) in CDCl$_3$. 
Figure S5. HMBC spectrum of artahongkongol A (1) in CDCl₃.

Figure S6. ¹H-¹H COSY spectrum of artahongkongol A (1) in CDCl₃.
Figure S7. ROESY spectrum of artahongkongol A (1) in CDCl$_3$. 