## **Chemical Constituents and Their Activities From the Twigs**

## of Euscaphis konishii Hayata.

Jingxin Chen,<sup>1</sup> Lin Ni,<sup>1,2\*</sup> Yao Zhang,<sup>1</sup> Yingsa Zhu,<sup>3</sup> Wei Huang,<sup>2</sup> Shuangquan

Zou<sup>2</sup>

Corresponding authors : nilin\_fjau@126.com

<sup>1</sup>College of Plant Protection, Fujian Agriculture and Forestry University, Fuzhou 350002, China.

<sup>2</sup>Fujian Colleges and Universities Engineering Research Institute of Conservation & Utiliz ation of Natural Bioresources, Fujian Agriculture and Forestry University, Fuzhou, 350 002, China.

<sup>3</sup>Agricultural Technology Extension Center of Shaowu, Nanping, 354000, China.

## **Supplementary data**

## Abstract

A new ellagic acid derivative 3,3'-di-*O*-methylellagic acid 4'- $\alpha$ -L-arabinopyranoside (1), with nine known compounds identified as: 3,3'-di-*O*-methylellagic acid (2), 3,3'-di-*O*-methylellagic acid 4'- $\alpha$ -D-arabinofuranoside (3), 3,3'-di-*O*-methylellagic acid 4'- $\beta$ -D-glucopyranoside (4), 3,3'-di-*O*-methylellagic acid 4'- $\beta$ -D-glucopyranoglucoside (5), 3,3',4-tri-*O*-methylellagic acid 4'- $\beta$ -D-glucopyranoside (6), tormentic acid (7), ursolic acid (8), euscaphic acid (9),and betulinic acid (10), was isolated from the twigs of *Euscaphis konishii* Hayata. The compounds 1, 3, 5-7 were isolated from this plant for the first time, and compounds 1 and 5 were obtained from the plant' genus for the first time. The structure of the new compound was confirmed by HRESIMS, NMR, and compared with data from the literature . The cytotoxicities of the ten isolated compounds were tested, with compounds 1-6 showing moderately inhibited activity against the Human Hepatocarcinoma cell line (HepG2 cells) with an IC<sub>50</sub> value ranging from 69.73  $\mu$ M to 181.83  $\mu$ M.



Fig.2<sup>13</sup>C-NMR of compound 1













Fig.8 HRESIMS of compound 1



Fig.9 IR of compound 1



Fig.10 CD of compound 1