SUPPLEMENTARY MATERIAL

A new polyoxygenated farnesylcyclohexenone from Fungus *Penicillium* sp.

Yabin Yang ^{a, §}, Fangfang Yang^{a, §}, Lixing Zhao^b, Rongting Duang^a, Guangyi Chen^a,
Xiaozhan Li^a, Qiling Li^a, Shaohuan Qin^a and Zhongtao Ding^{a, *}

^aSchool of Chemical Science and Technology, Yunnan University, Kunming 650091, People's Republic of China; ^bYunnan Institute of Microbiology, Yunnan University, Kunming 650091, People's Republic of China

*Corresponding author. E-mail: ztding@ynu.edu.cn.

§These authors contributed equally to this paper.

A new polyoxygenated farnesylcyclohexenones, peniginsengin A (**1**) was isolated from the fermentation of *Penicillium* sp. YIM PH30003, an endophytic fungus associated with *Panax notoginseng* (Burk.) F. H. Chen. The structure was assigned based on a combination of 1 D and 2 D NMR and mass spectral data. The cytotoxicity and antimicrobial activities of compound **1** were investigated.

Keywords: *Penicillium* sp., polyoxygenated farnesylcyclohexenone; peniginsengin

A

Figure S1. ^1H - ^1H COSY and key HMBC correlations for **1**.

Figure S2. HR-ESIMS of compound **1**

Figure S5. HMQC of compound **1**

Figure S6. COSY of compound **1**

Figure S7. HMBC of compound **1**

Figure S8. ROESY of compound **1**