SUPPLEMENTARY MATERIAL

Xylariphilone: a new azaphilone derivative from the seagrass-derived fungus Xylariales sp. PSU-ES163

Jiraporn Arunpanichlert^a, Vatcharin Rukachaisirikul^{a*}, Souwalak Phongpaichit^b, Orathai Supaphon^b, Jariya Sakayaroj^c

^aDepartment of Chemistry and Center of Excellence for Innovation in Chemistry, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla 90112, Thailand; ^bNatural Products Research Center and Department of Microbiology, Faculty of Science, Prince of Songkla University, Hat Yai, Songkhla 90112, Thailand; ^cNational Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand Science Park, Klong Luang, Pathumthani 12120, Thailand

ABSTRACT

One new azaphilone derivative, named xylariphilone (**1**), along with ten known compounds were isolated from the seagrass-derived fungus Xylariales sp.

PSU-ES163. Their structures were elucidated on the basis of extensive spectroscopic analysis. The absolute and relative configurations of **1** were determined by circular dichroism spectroscopy and NOEDIFF data. The antimicrobial and cytotoxic activities of the isolated compounds were evaluated.

Keywords: Xylariales sp.; seagrass-derived fungus; azaphilone derivative; antimicrobial activity; cytotoxic activity

Figure S1 The 500 MHz ^1H NMR spectrum of compound **1** in CDCl_3

Figure S2 The 125 MHz ^{13}C NMR spectrum of compound **1** in CDCl_3 (* = an impurity)

Figure S3. Selective NOEDIFF correlations of **1**.