Supplementary Materials

Phloroglucinol derivatives from *Dryopteris crassirhizoma* as potent xanthine oxidase inhibitors

Heung Joo Yuk, Ji-Yul Kim, Yoon-Young Sung and Dong-Seon Kim*

Title page
Figure S1–4. ¹ H-NMR spectrum of compounds (1–4)
Figure S5–8 . ¹³ C-NMR spectrum of compounds (1–4)
Figure S9–12 . IR spectrum of compounds (1–4)
Figure S13–16. Identification of compounds (1–4) by UPLC-Q-TOF MS
Figure S17–18. Kinetics analysis of compounds (1–4)



Figure S1. The ¹H NMR spectrum of compound **1** (600 MHz, CD₃OD).



Figure S2. The ¹H NMR spectrum of compound **2** (600 MHz, CD₃OD).



Figure S3. The ¹H NMR spectrum of compound **3** (600 MHz, CD₃OD).



Figure S4. The ¹H NMR spectrum of compound **4** (600 MHz, CD₃OD).



Figure S5. The 13 C NMR spectrum of compound 1 (150 MHz, CD₃OD).



Figure S6. The 13 C NMR spectrum of compound 2 (150 MHz, CD₃OD).



Figure S7. The 13 C NMR spectrum of compound 3 (150 MHz, CD₃OD).



Figure S8. The 13 C NMR spectrum of compound 4 (150 MHz, CD₃OD).











Figure S13. Identification of compound 1 by UPLC-QTof MS.



Figure S14. Identification of compound 2 by UPLC-QTof MS.



Figure S15. Identification of compound 3 by UPLC-QTof MS.



Figure S16. Identification of compound 4 by UPLC-QTof MS.



Figure S17. (A–D) Lineweaver-Burk plots of XO inhibition by compounds (1–4).



Figure S18. (A–D) Dixon plots of XO inhibition by compounds (1–4).