

Supporting Information
for
Sesquiterpene glycosides from *Cosmospora joca* (Samuels) Rossman
& Samuels 89041201

Tzong-Huei Lee,* Chung-Kuang Lu, Guei-Jane Wang, Ya-Chih Chang, Wen-Bin
Yang, and Yu-Min Ju

- Page 2, Figure S1. ¹H NMR (500 MHz, MeOH-*d*₄) of **1**.
Figure S2. ¹³C NMR (125 MHz, MeOH-*d*₄) of **1**.
- Page 3, Figure S3. ¹H NMR (800 MHz, pyridine-*d*₅) of **2**.
Figure S4. ¹³C NMR (200 MHz, pyridine-*d*₅) of **2**.
- Page 4, Figure S5. ¹H NMR (500 MHz, pyridine-*d*₅) of **3**.
Figure S6. ¹³C NMR (125 MHz, pyridine-*d*₅) of **3**.
- Page 5, Figure S7. ¹H NMR (500 MHz, pyridine-*d*₅) of **4**.
Figure S8. ¹³C NMR (125 MHz, pyridine-*d*₅) of **4**.
- Page 6, Figure S9. ¹H NMR (500 MHz, pyridine-*d*₅) of **5**.
Figure S10. ¹³C NMR (125 MHz, pyridine-*d*₅) of **5**.
- Page 7, Figure S11. The effects of **1–5** on nitrite production (A) and cell viability (B)
in LPS-activated RAW 264.7 cells.
- Page 8, Figure S12. The effects of **4** on NO production in LPS-activated cells.

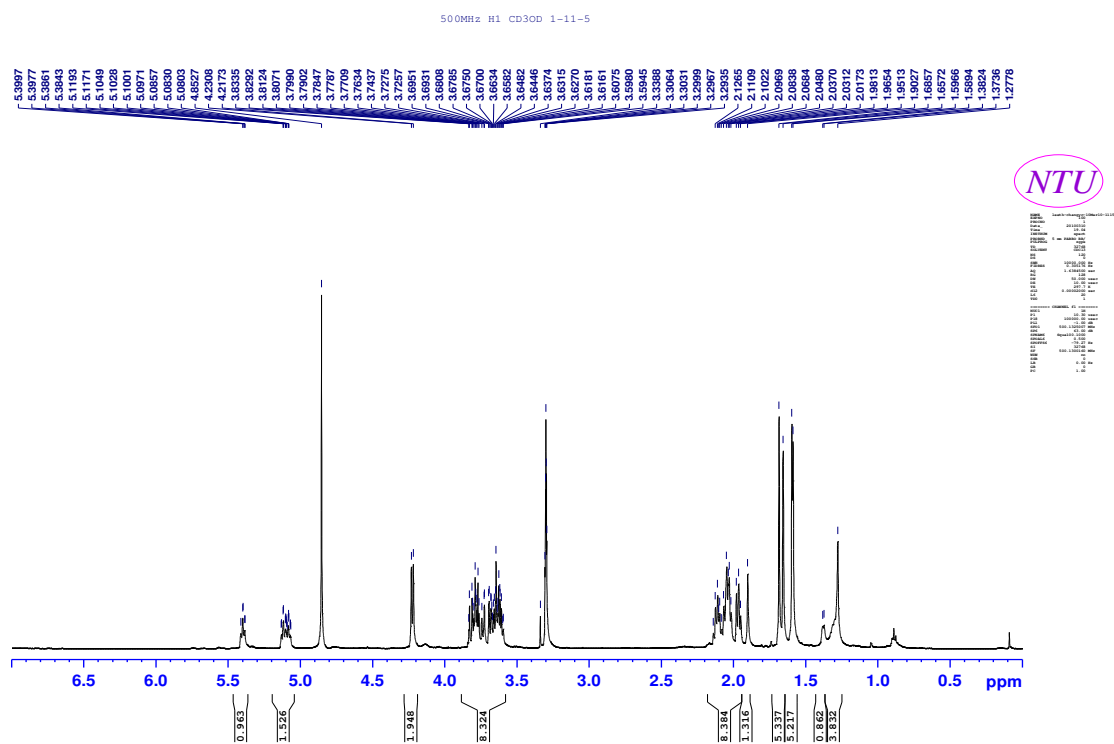


Figure S1. ^1H NMR (500 MHz, $\text{MeOH-}d_4$) of **1**.

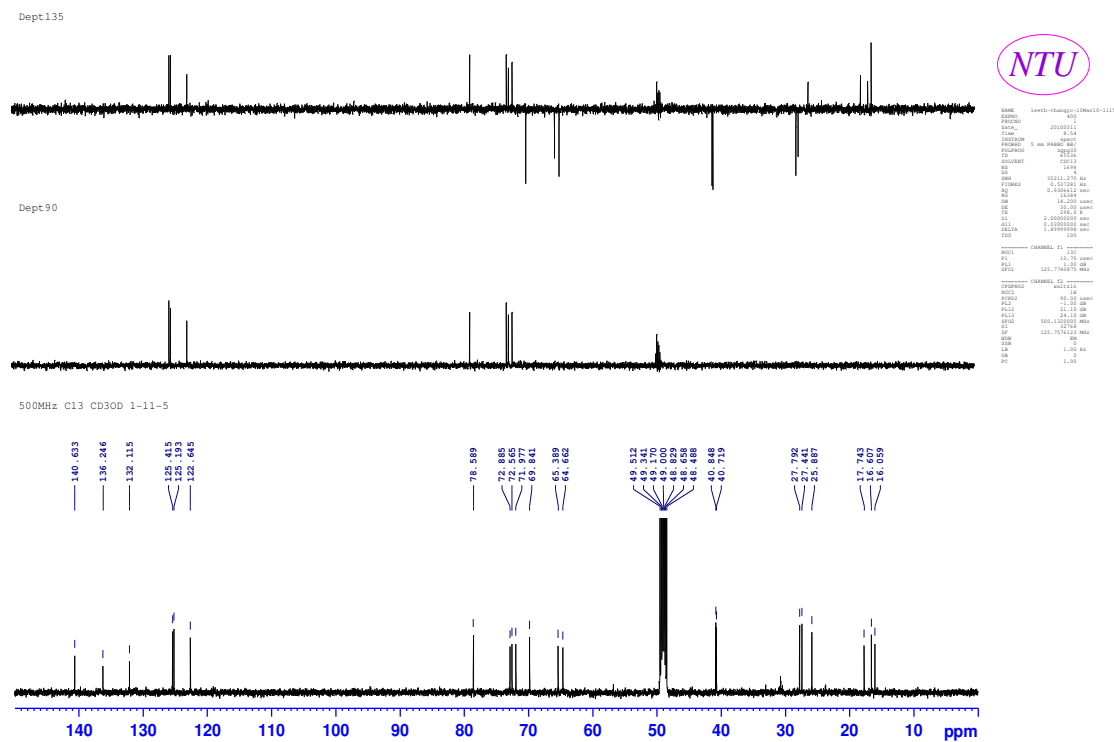


Figure S2. ^{13}C NMR (125 MHz, $\text{MeOH-}d_4$) of **1**.

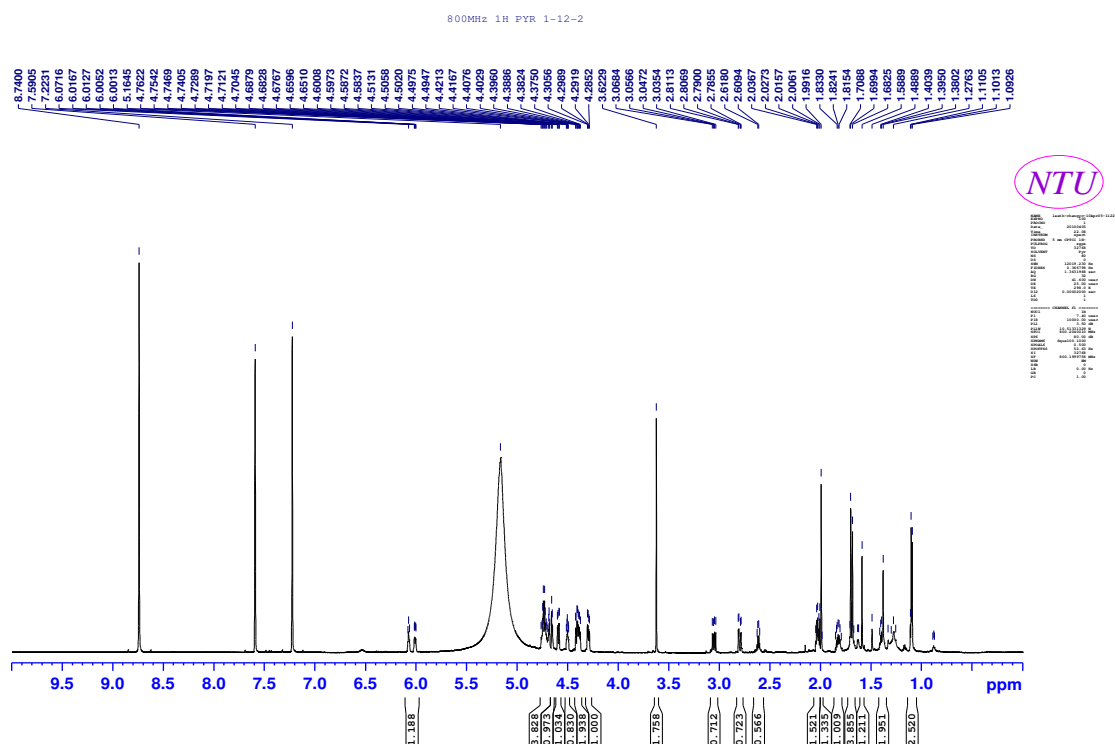


Figure S3. ^1H NMR (800 MHz, pyridine- d_5) of **2**.

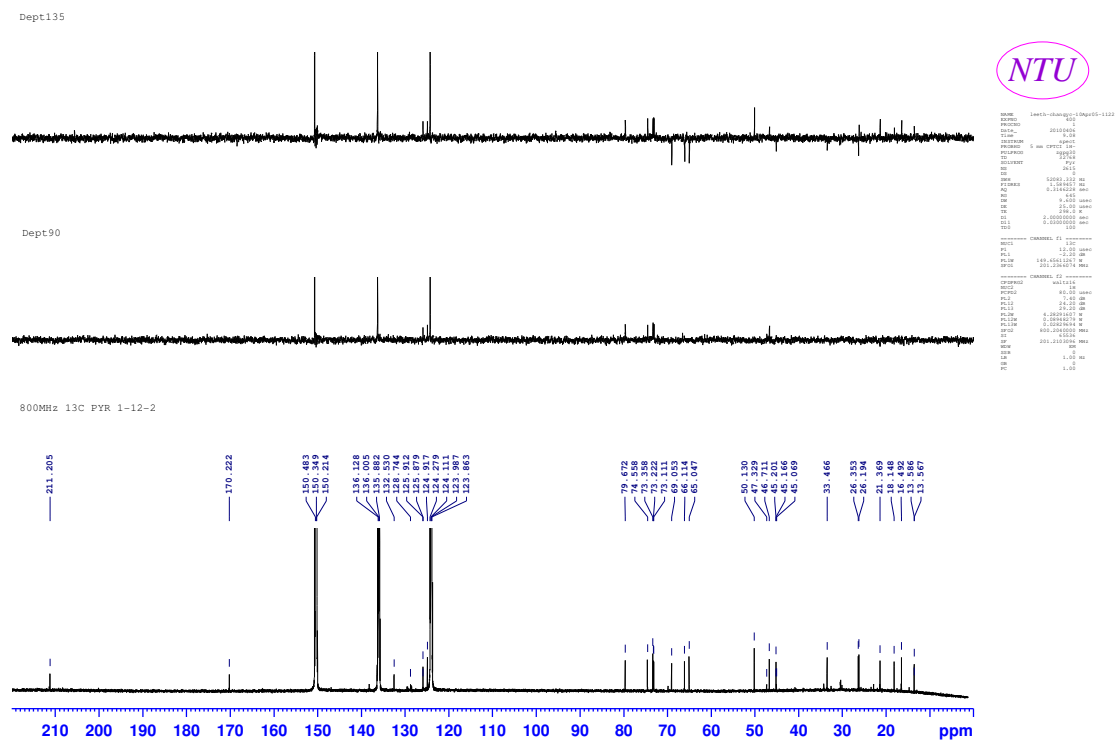


Figure S4. ^{13}C NMR (200 MHz, pyridine- d_5) of **2**.



Dept135

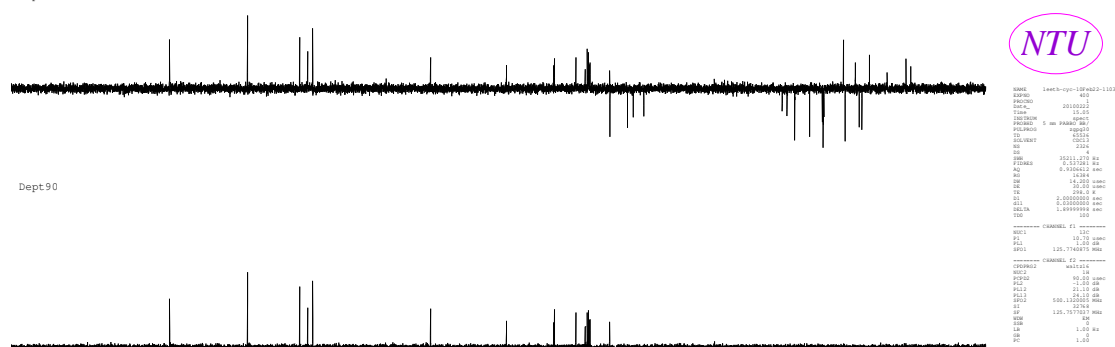
NTU

Output File: 135C13.PYR
Date: 11/11/11
Time: 11:11
User: jk
Sample: 135C13.PYR
Pulse: zgpg30
Acq: 135C13.PYR
F2: Acquisition Param
F2: 125.760 MHz
Date_1: 11/11/11
Time_1: 11:11
User_1: jk
Sample_1: 135C13.PYR
Pulse_1: zgpg30
Acq_1: 135C13.PYR
F2_1: 125.760 MHz
Date_2: 11/11/11
Time_2: 11:11
User_2: jk
Sample_2: 135C13.PYR
Pulse_2: zgpg30
Acq_2: 135C13.PYR
F2_2: 125.760 MHz
Date_3: 11/11/11
Time_3: 11:11
User_3: jk
Sample_3: 135C13.PYR
Pulse_3: zgpg30
Acq_3: 135C13.PYR
F2_3: 125.760 MHz
Date_4: 11/11/11
Time_4: 11:11
User_4: jk
Sample_4: 135C13.PYR
Pulse_4: zgpg30
Acq_4: 135C13.PYR
F2_4: 125.760 MHz
Date_5: 11/11/11
Time_5: 11:11
User_5: jk
Sample_5: 135C13.PYR
Pulse_5: zgpg30
Acq_5: 135C13.PYR
F2_5: 125.760 MHz
Date_6: 11/11/11
Time_6: 11:11
User_6: jk
Sample_6: 135C13.PYR
Pulse_6: zgpg30
Acq_6: 135C13.PYR
F2_6: 125.760 MHz
Date_7: 11/11/11
Time_7: 11:11
User_7: jk
Sample_7: 135C13.PYR
Pulse_7: zgpg30
Acq_7: 135C13.PYR
F2_7: 125.760 MHz
Date_8: 11/11/11
Time_8: 11:11
User_8: jk
Sample_8: 135C13.PYR
Pulse_8: zgpg30
Acq_8: 135C13.PYR
F2_8: 125.760 MHz
Date_9: 11/11/11
Time_9: 11:11
User_9: jk
Sample_9: 135C13.PYR
Pulse_9: zgpg30
Acq_9: 135C13.PYR
F2_9: 125.760 MHz
Date_10: 11/11/11
Time_10: 11:11
User_10: jk
Sample_10: 135C13.PYR
Pulse_10: zgpg30
Acq_10: 135C13.PYR
F2_10: 125.760 MHz
Date_11: 11/11/11
Time_11: 11:11
User_11: jk
Sample_11: 135C13.PYR
Pulse_11: zgpg30
Acq_11: 135C13.PYR
F2_11: 125.760 MHz
Date_12: 11/11/11
Time_12: 11:11
User_12: jk
Sample_12: 135C13.PYR
Pulse_12: zgpg30
Acq_12: 135C13.PYR
F2_12: 125.760 MHz
Date_13: 11/11/11
Time_13: 11:11
User_13: jk
Sample_13: 135C13.PYR
Pulse_13: zgpg30
Acq_13: 135C13.PYR
F2_13: 125.760 MHz
Date_14: 11/11/11
Time_14: 11:11
User_14: jk
Sample_14: 135C13.PYR
Pulse_14: zgpg30
Acq_14: 135C13.PYR
F2_14: 125.760 MHz
Date_15: 11/11/11
Time_15: 11:11
User_15: jk
Sample_15: 135C13.PYR
Pulse_15: zgpg30
Acq_15: 135C13.PYR
F2_15: 125.760 MHz
Date_16: 11/11/11
Time_16: 11:11
User_16: jk
Sample_16: 135C13.PYR
Pulse_16: zgpg30
Acq_16: 135C13.PYR
F2_16: 125.760 MHz
Date_17: 11/11/11
Time_17: 11:11
User_17: jk
Sample_17: 135C13.PYR
Pulse_17: zgpg30
Acq_17: 135C13.PYR
F2_17: 125.760 MHz
Date_18: 11/11/11
Time_18: 11:11
User_18: jk
Sample_18: 135C13.PYR
Pulse_18: zgpg30
Acq_18: 135C13.PYR
F2_18: 125.760 MHz
Date_19: 11/11/11
Time_19: 11:11
User_19: jk
Sample_19: 135C13.PYR
Pulse_19: zgpg30
Acq_19: 135C13.PYR
F2_19: 125.760 MHz
Date_20: 11/11/11
Time_20: 11:11
User_20: jk
Sample_20: 135C13.PYR
Pulse_20: zgpg30
Acq_20: 135C13.PYR
F2_20: 125.760 MHz
Date_21: 11/11/11
Time_21: 11:11
User_21: jk
Sample_21: 135C13.PYR
Pulse_21: zgpg30
Acq_21: 135C13.PYR
F2_21: 125.760 MHz
Date_22: 11/11/11
Time_22: 11:11
User_22: jk
Sample_22: 135C13.PYR
Pulse_22: zgpg30
Acq_22: 135C13.PYR
F2_22: 125.760 MHz
Date_23: 11/11/11
Time_23: 11:11
User_23: jk
Sample_23: 135C13.PYR
Pulse_23: zgpg30
Acq_23: 135C13.PYR
F2_23: 125.760 MHz
Date_24: 11/11/11
Time_24: 11:11
User_24: jk
Sample_24: 135C13.PYR
Pulse_24: zgpg30
Acq_24: 135C13.PYR
F2_24: 125.760 MHz
Date_25: 11/11/11
Time_25: 11:11
User_25: jk
Sample_25: 135C13.PYR
Pulse_25: zgpg30
Acq_25: 135C13.PYR
F2_25: 125.760 MHz
Date_26: 11/11/11
Time_26: 11:11
User_26: jk
Sample_26: 135C13.PYR
Pulse_26: zgpg30
Acq_26: 135C13.PYR
F2_26: 125.760 MHz
Date_27: 11/11/11
Time_27: 11:11
User_27: jk
Sample_27: 135C13.PYR
Pulse_27: zgpg30
Acq_27: 135C13.PYR
F2_27: 125.760 MHz
Date_28: 11/11/11
Time_28: 11:11
User_28: jk
Sample_28: 135C13.PYR
Pulse_28: zgpg30
Acq_28: 135C13.PYR
F2_28: 125.760 MHz
Date_29: 11/11/11
Time_29: 11:11
User_29: jk
Sample_29: 135C13.PYR
Pulse_29: zgpg30
Acq_29: 135C13.PYR
F2_29: 125.760 MHz
Date_30: 11/11/11
Time_30: 11:11
User_30: jk
Sample_30: 135C13.PYR
Pulse_30: zgpg30
Acq_30: 135C13.PYR
F2_30: 125.760 MHz
Date_31: 11/11/11
Time_31: 11:11
User_31: jk
Sample_31: 135C13.PYR
Pulse_31: zgpg30
Acq_31: 135C13.PYR
F2_31: 125.760 MHz
Date_32: 11/11/11
Time_32: 11:11
User_32: jk
Sample_32: 135C13.PYR
Pulse_32: zgpg30
Acq_32: 135C13.PYR
F2_32: 125.760 MHz
Date_33: 11/11/11
Time_33: 11:11
User_33: jk
Sample_33: 135C13.PYR
Pulse_33: zgpg30
Acq_33: 135C13.PYR
F2_33: 125.760 MHz
Date_34: 11/11/11
Time_34: 11:11
User_34: jk
Sample_34: 135C13.PYR
Pulse_34: zgpg30
Acq_34: 135C13.PYR
F2_34: 125.760 MHz
Date_35: 11/11/11
Time_35: 11:11
User_35: jk
Sample_35: 135C13.PYR
Pulse_35: zgpg30
Acq_35: 135C13.PYR
F2_35: 125.760 MHz
Date_36: 11/11/11
Time_36: 11:11
User_36: jk
Sample_36: 135C13.PYR
Pulse_36: zgpg30
Acq_36: 135C13.PYR
F2_36: 125.760 MHz
Date_37: 11/11/11
Time_37: 11:11
User_37: jk
Sample_37: 135C13.PYR
Pulse_37: zgpg30
Acq_37: 135C13.PYR
F2_37: 125.760 MHz
Date_38: 11/11/11
Time_38: 11:11
User_38: jk
Sample_38: 135C13.PYR
Pulse_38: zgpg30
Acq_38: 135C13.PYR
F2_38: 125.760 MHz
Date_39: 11/11/11
Time_39: 11:11
User_39: jk
Sample_39: 135C13.PYR
Pulse_39: zgpg30
Acq_39: 135C13.PYR
F2_39: 125.760 MHz
Date_40: 11/11/11
Time_40: 11:11
User_40: jk
Sample_40: 135C13.PYR
Pulse_40

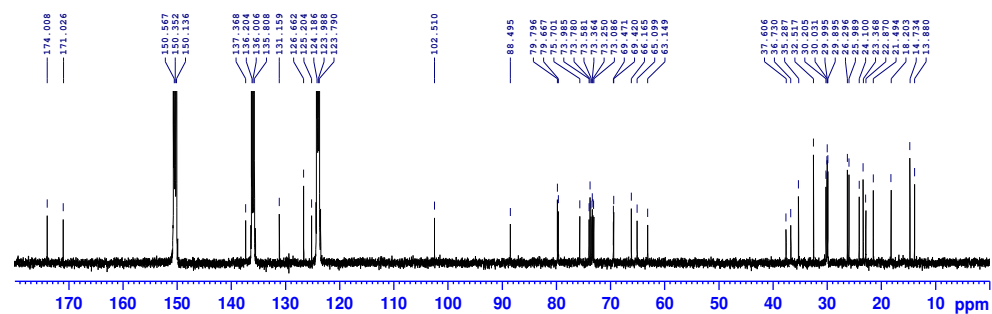
4



Dept135



500MHz C13 PRY 1103

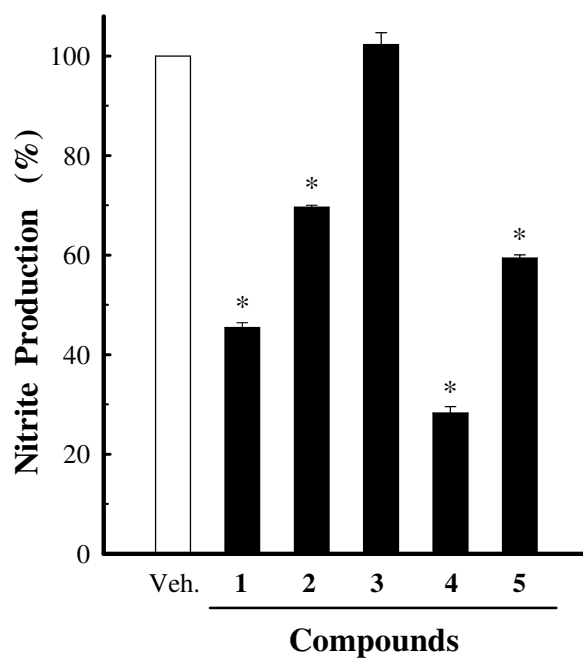


5

[illegible]

6

A



B

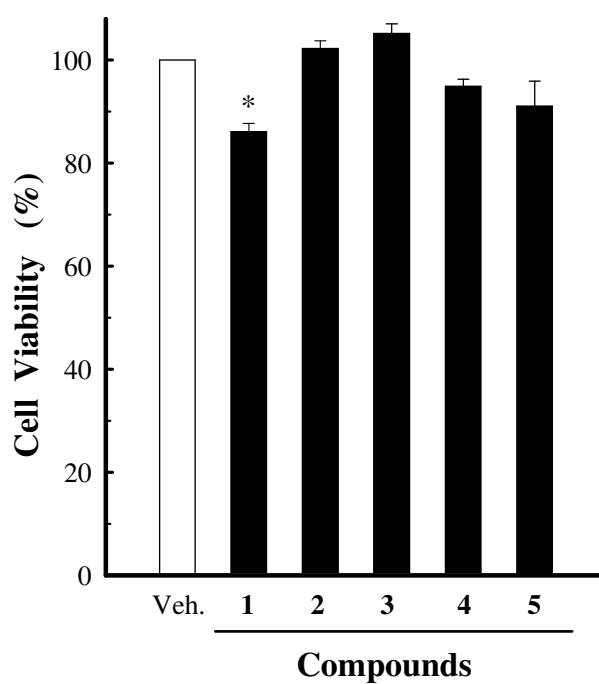


Figure S11. The effects of **1–5** on nitrite production (A) and cell viability (B) in LPS-activated RAW 264.7 cells. Vehicle presenting 100% is equal to 36.5 ± 0.2 μ M of nitrite produced in the medium per well. $n = 6$ in each group, * $P < 0.05$ when compared with vehicle-treated cells.

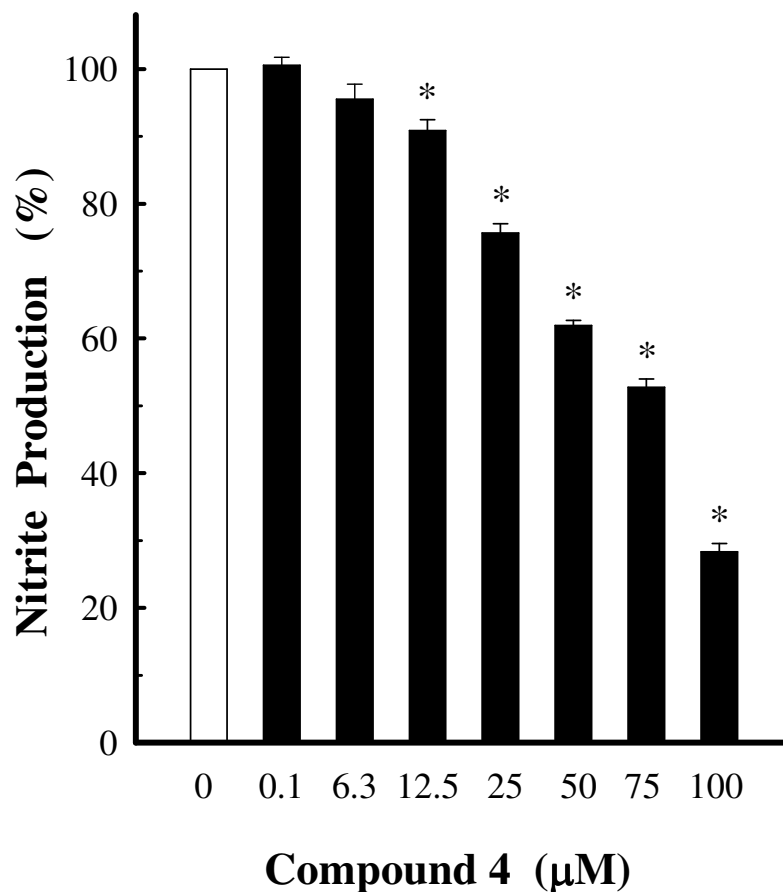


Figure S12. The effects of **4** on NO production in LPS-activated cells. Vehicle presenting 100% is equal to $35.5 \pm 0.1 \mu\text{M}$ of nitrite produced in the medium per well. $n = 6$ in each group. * $P < 0.05$ when compared with vehicle-treated cells. The inhibitory effects were compared with those of the reference compounds, aminoguanidine, a selective iNOS inhibitor, and N^{ω} -nitro-L-arginine (L-NNA), a non-selective NOS inhibitor. Under the same conditions, aminoguanidine exhibited an E_{max} of $83.48 \pm 0.52 \%$ and an IC_{50} of $24.78 \pm 0.55 \mu\text{M}$, respectively. L-NNA revealed an E_{max} of $45.66 \pm 0.82 \%$ and an IC_{50} of $150.18 \pm 12.23 \mu\text{M}$, respectively, similar to our previous report.