SUPPLEMENTARY MATERIAL

Four new compounds from *Neoboletus magnificus*

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ABSTRACT

Four new compounds, compounds 1, 2, 4, 6, along with two compounds 3, 5, were isolated from the methanol extract of the fruiting body of *Neoboletus magnificus*. The structures of compounds were elucidated by HRMS and NMR spectroscopic methods. The \textit{in vitro} anti-inflammatory activity of the isolated compounds was evaluated.

\textbf{Key words}: *Neoboletus magnificus*, Boletaceae, sphingolipid, pyrrole alkaloid
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![H NMR spectrum of compound 5](image)

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Table S1. $^1$H and $^{13}$C NMR Data ($\delta$) of Compound 1 ($\delta$ in ppm and $J$ in 800 Hz)

| Position | $\delta$(C) | $\delta$(H)          |
|----------|-------------|----------------------|
| 1        | 176.0       |                      |
| 2        | 34.8        | 2.31 (t, 7.44)       |
| 3        | 26.0        | 1.60 (m)             |
| 4        | 30.1        | 1.32 (m)             |
| 5        | 25.5        | 1.60 (m)             |
| 6        | 41.0        | 2.59 (t, 7.36)       |
| 7        | 203.9       |                      |
| 8        | 128.8       | 6.12 (d, 15.6)       |
| 9        | 145.3       | 7.23 (dd, 15.6, 9.68) |
| 10       | 147.4       | 6.27 (ddd, 21.44, 15.2, 6.4) |
|    |     |       |          |
|----|-----|-------|----------|
| 11 | 130.3 | 6.27 (ddd, 21.44, 15.2, 6.4) |
| 12 | 34.1 | 2.20 (dd, 14, 7.12) |
| 13 | 29.6 | 1.46 (m) |
| 14 | 30.0 | 1.32 (m) |
| 15 | 23.5 | 1.32 (m) |
| 16 | 32.6 | 1.32 (m) |
| 17 | 14.3 | 0.91 (t, 6.96) |
| OCH₃ | 52.0 | 3.64 (s) |
Table S2. $^1$H and $^{13}$C NMR Data ($\delta$) of Compound 2 ($\delta$ in ppm and $J$ in 600 Hz)

| Position | $\delta$(C) | $\delta$(H)          |
|----------|-------------|----------------------|
| 1        | 171.62      |                      |
| 2        | 35.45       | 2.05 (t, 7.74)       |
| 3        | 23.27       | 2.19 (dd, 7.2, 14.46)|
| 4        | 128.53      | 5.27 (m)             |
| 5        | 130.28      | 5.31 (m)             |
| 6        | 26.60       | 1.97 (dd, 6.9, 13.92)|
| 7        | 28.81       | 1.26 (m)             |
| 8        | 30.92       | 1.23 (m)             |
| 9        | 22.03       | 1.24 (m)             |
| 10       | 13.99       | 0.84 (t, 6.84)       |
| 1'       | 35.77       | 3.06 (m)             |
| 2'       | 38.83       | 1.40 (m)             |
| 3'       | 63.81       | 3.58 (m)             |
| 4'       | 23.63       | 1.02 (d, 6.18)       |
Table S3. $^1$H and $^{13}$C NMR Data ($\delta$) of Compound 3 ($\delta$ in ppm and $J$ in 600 Hz)

| Position | $\delta$(C) | $\delta$(H)       |
|----------|-------------|-------------------|
| 1        | 172.24      |                   |
| 2        | 35.46       | 2.01 (t, 7.38)    |
| 3        | 25.37       | 1.45 (m)          |
| 4        | 28.47       | 1.21 (m)          |
| 5        | 28.64       | 1.21 (m)          |
|   |     |         |
|---|-----|---------|
| 6 | 31.23 | 1.21 (m) |
| 7 | 22.10 | 1.23 (m) |
| 8 | 14.00 | 0.84 (t, 6.84) |
| 1' | 35.71 | 3.06 (m) |
| 2' | 38.86 | 1.40 (m) |
| 3' | 63.82 | 3.57 (m) |
| 4' | 23.63 | 1.02 (d, 6.18) |
Table S4. $^1$H and $^{13}$C NMR Data ($\delta$) of Compound 4 ($\delta$ in ppm and $J$ in 500 Hz)

| Position | $\delta$(C) | $\delta$(H) |
|----------|-------------|-------------|
| 1        |             |             |
| 2        | 131.45      |             |
| 3        | 123.94      | 6.94 (d, 3.95) |
| 4        | 109.54      | 6.17 (d, 3.95) |
| 5        | 143.44      |             |
| 1’       | 42.33       | 4.29 (m)    |
| 2’       | 40.35       | 1.66 (m)    |
| 3’       | 63.65       | 3.55 (m)    |
| 4’       | 23.66       | 1.04 (d, 6.2) |
| 1”       | 54.69       | 4.50 (dd, 13.7, 19.6) |
| 2-CHO    | 178.92      | 9.43 (s)    |

Table S5. $^1$H and $^{13}$C NMR Data ($\delta$) of Compound 5 ($\delta$ in ppm and $J$ in 600 Hz)
| Position | δ(C) | δ(H)       |
|----------|------|------------|
| 1        |      |            |
| 2        | 132.34 |            |
| 3        | 125.14 | 6.98 (d, 3.9) |
| 4        | 110.02 | 6.20 (dd, 2.34, 3.78) |
| 5        | 132.61 | 7.19 (brs) |
| 1’       | 46.40  | 4.42 (m)   |
| 2’       | 41.46  | 1.84 (m), 1.73 (m) |
| 3’       | 64.62  | 3.62 (m)   |
| 4’       | 24.03  | 1.12 (d, 6.12) |
| 2-CHO    | 179.71 | 9.53 (s)   |

**Table S6.** $^1$H and $^{13}$C NMR Data (δ) of Compound 6 (δ in ppm and J in 600 Hz)

| Position | δ(C) | δ(H)       |
|----------|------|------------|
| 1        | 35.25 | 2.72 (t, 7.5) |
| 2        | 39.78 | 3.30 (m)   |
| 3        |      |            |
| Layer | Depth (m) | Tilt Angle (°) |
|-------|-----------|----------------|
| 4     | 172.32    |                |
| 5     | 72.95     | 3.87 (s)       |
| 6     | 73.54     | 3.67 (m)       |
| 7     | 62.04     | 3.39 (m)       |
| 1'    | 139.50    |                |
| 2',6' | 128.66    | 7.29 (t, 7.68) |
| 3',5' | 128.42    | 7.21 (m)       |
| 4'    | 126.16    | 7.21 (m)       |