SUPPLEMENTARY MATERIAL

Two new Compounds, Deacetylisowortmins A and B, isolated from an Endophytic Fungus, Talaromyces wortmannii LGT-4

Guang-Chao Fu, Zhong-Duo Yang, Shuang-Yan Zhou, Hai-Tao Yu, Fei Zhang, Xiao-Jun Yao

\(^a\)School of Life Science and Engineering, Lanzhou University of Technology, Lanzhou 730050, PR China

\(^b\)The Provincial Education Key Laboratory of Screening, Evaluation and Advanced Processing of Traditional Chinese Medicine and Tibetan Medicine, School of Life Science and Engineering, Lanzhou University of Technology, Lanzhou, 730050, PR China

\(^c\)Department of Chemistry, Lanzhou University, Lanzhou, 730000, PR China

\(^d\)Institute of Plant Protection, Gansu Academy of Agricultural Sciences, Lanzhou, 730070, PR China

Two new compounds, deacetylisowortmins A (1) and B (2), were isolated from Talaromyces wortmannii LGT-4. Their structures were established by 1D and 2D NMR spectra, as well as comparison of the experimental and calculated electronic circular dichroism (ECD) spectra. Monoamine oxidase and acetylcholinesterase inhibitory activities of 1 and 2 were also evaluated.

**Keywords:** Endophytic fungus; Talaromyces wortmannii; Deacetylisowortmins; Structure elucidation; Enzyme inhibition
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Table S1. $^1$H NMR data of compound 1-2 (600 M)

| No | 1 in CDCl$_3$ | 1 in CD$_3$OD | 2 in CDCl$_3$ |
|----|---------------|---------------|---------------|
| 1α | 4.31 (d, $J = 16.0$) | 4.23 (d, $J = 16.0$) | 4.32 (d, $J = 16.7$) |
| 1β | 4.55 (d, $J = 16.0$) | 4.42 (d, $J = 16.0$) | 4.59 (d, $J = 16.2$) |
| 3  | 4.07 (m)       | 4.08 (m)       | 4.08 (dd, $J = 10.1, 5.4$, 5.0) |
| 4α | 2.22 (dd, $J = 18.4, 5.4$) | 2.33 (m) | 2.23 (dd, $J = 19.1, 5.4$) |
| 4β | 2.36 (m)       | 2.33 (m)       | 2.35 (d, $J = 18.4, 9.4$) |
| 5α | 2.60 (dd, $J = 17.5, 6.4$) | 2.58 (m) | 2.71 (dd, $J = 17.6, 6.1$) |
| 5β | 2.41 (dd, $J = 17.5, 10.6$) | 2.58 (m) | 2.57 (m) |
| 6  | 5.09 (dd, $J = 10.4, 6.4$) | 5.00 (dd, $J = 10.1, 6.4$) | 6.20 (dd, $J = 10.5, 6.2$) |
| 9  | 5.54 (dd, $J = 15.0, 6.1$) | 5.54 (dd, $J = 15.4, 5.0$) | 5.54 (dd, $J = 15.4, 6.5$) |
| 10 | 5.80 (dq, $J = 15.0, 6.9$) | 5.79 (dq, $J = 15.4, 6.5$) | 5.81 (dq, $J = 15.4, 6.5$) |
| 11 | 1.74 (d, $J = 6.5$) | 1.72 (d, $J = 6.6$) | 1.74 (d, $J = 6.5$) |
| 12 | 1.54 (s)       | 1.49 (s)       | 1.56 (s)       |
| 2  | -             | -             | 2.07 (s)       |
| 3  | 6.29 (d, $J = 2.6$) | 6.29 (d, $J = 2.6$) | 6.30 (d, $J = 2.4$) |
| 5  | 6.29 (d, $J = 2.6$) | 6.34 (d, $J = 2.6$) | 6.27 (d, $J = 2.7$) |
| 8  | 2.55 (s)       | 2.55 (s)       | 2.49 (s)       |
| -OMe | 3.79 (s) | 3.79 (s) | 3.78 (s) |
| 2'-OH | 11.16 (s) | No observed | 11.09 (s) |

Table S2. $^{13}$C NMR data of compound 1-2 (150 M)

| No | 1 in CD$_3$OD | 2 in CDCl$_3$ | No | 1 in CD$_3$OD | 2 in CDCl$_3$ |
|----|---------------|---------------|----|---------------|---------------|
| 1  | 64.1          | 63.6          | 11 | 18.0          | 18.0          |
| 3  | 74.8          | 73.6          | 12 | 16.4          | 17.2          |
| 4  | 37.2          | 36.5          | 1  | -             | 169.9         |
| 4a | 153.6         | 149.3         | 2  | -             | 21.0          |
| 5  | 38.8          | 35.0          | 1  | 107.2         | 105.4         |
| 6  | 68.7          | 69.7          | 2  | 166.2         | 165.8         |
| 7  | 88.2          | 83.5          | 3  | 99.8          | 99.0          |
| 8  | 195.2         | 191.5         | 4  | 165.5         | 164.3         |
| 8a | 130.1         | 130.3         | 5  | 111.7         | 111.5         |
| 9  | 131.7         | 130.3         | 6  | 144.6         | 143.2         |
| 10 | 129.3         | 129.2         | -OMe | 55.8 | 55.5         |
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Figure S12. HMQC (600 MHz, CD$_3$OD) spectrum of compound 1
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Figure S15. $^1$H NMR (600 MHz, CDCl$_3$) spectrum of compound 2
Figure S16. $^{13}$C NMR (600 MHz, CDCl$_3$) spectrum of compound 2

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Figure S19. HMBC (600 MHz, CDCl$_3$) spectrum of compound 2
Figure S20. HMQC (600 MHz, CDCl₃) spectrum of compound 2