SUPPLEMENTARY MATERIAL

New terpenoids and lignans from the twigs of *Tripterygium hypoglaucum*

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Six new compounds, including three terpenoids (1-3) and three lignans (4-6), were isolated from the 95% EtOH extract of the twigs of *Tripterygium hypoglaucum*. Their structures were determined on the basis of extensive spectroscopic analysis. 9′-O-benzoyl-lariciresinol (4) showed weak cytotoxicity against HepG2/Adr cells, with an IC$_{50}$ value of 30.1 μM *in vitro*.

Key words: *Tripterygium hypoglaucum*; terpenoid; lignan; Celastraceae; cytotoxicity

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**Table S3.** $^1$H and $^{13}$C NMR data for compounds 1-3

| No. | $^1$H NMR data | $^{13}$C NMR data |
|-----|----------------|-------------------|
|     | $\delta_C$     | $\delta_H$       |
| 1   | 35.7            | 36.9             |
|     |                 | 37.3             |
| 2   | 42.4 (ddd, 13.3, 2.3) | 45.1 (dd, 13.3, 9.1) |
|     | 1.65 (dd, 13.3, 8.5, 4.7) | 2.06 (m) |
| 3   | 68.9 (m)       | 70.5             |
|     | 5.26 (m)       | 220.9            |
| 4   | 37.4 (dd, 15.1, 5.2) | 43.6          |
|     | 2.37 (dd, 14.9, 7.5) | 1.87 (dd, 14.3, 4.1) |
| 5   | 67.6            | 87.9             |
|     | 51.3            | 2.14 (dd, 12.9, 1.8) |
| 6   | 71.1            | 184.1            |
|     | 19.8            | 1.85 (dd, 12.9, 6.2) |
| 7   | 144.4 (d, 15.8) | 114.1 (m)        |
|     | 5.82 (s)       | 30.4 (d, 4.5)   |
| 8   | 134.1 (d, 15.8) | 174.1 (m)        |
| 9   | 200.1 (m)      | 26.5             |
|     | 1.41 (s)       | 144.3            |
| 10  | 27.5 (s)       | 30.8             |
|     | 1.29 (s)       | 37.1             |
| 11  | 25.7 (s)       | 27.1             |
|     | 1.72 (s)       | 107.5            |
| 12  | 28.9 (s)       | 1.23 (s)         |
|     | 155.4          |                 |
| 13  | 20.1 (s)       | 1.19 (s)         |
|     | 135.3          |                 |
| 14  | 126.4          | 6.85 (s)         |
| 15  | 26.5 (s)       | 3.22 (dt, 13.8, 6.8) |
| 16  | 22.6           | 1.18 (s)         |
| 17  | 22.8           | 1.18 (s)         |
| 18  | 22.3           | 1.35 (s)         |
| 19  | 65.7           | 4.08 (dd, 11.3, 2.8) |
|     |                 | 3.51 (m)         |
| 20  |                 | 25.7             |
| 1′  | 173.4          | 173.1            |
| 2′  | 29.9           | 2.58 (m)         |
|     |                 | 30.3             |
| 3′  | 30.3           | 2.64 (m)         |
|     |                 | 29.8             |
| 4′  | 174.2          | 174.1            |
| 5′  | 61.7           | 4.13 (q, 7.1)   |
|     |                 | 61.8             |
| 6′  | 14.5           | 1.25 (s)         |
|     |                 | 14.5             |

$^a$Data were measured in CD$_3$OD at 600 MHz ($^1$H NMR, $J$ in Hz) and 150 MHz ($^{13}$C NMR); $^b$Data were measured in CDCl$_3$ at 600 MHz ($^1$H NMR, $J$ in Hz) and 150 MHz ($^{13}$C NMR); $^c$Signals were overlapped.
Table S4. $^1$H and $^{13}$C NMR data for compounds 4-6

| No. | $^1$H NMR Data | $^{13}$C NMR Data |
|-----|----------------|-------------------|
|     | $\delta$C | $\delta$H | $\delta$C | $\delta$H | $\delta$C | $\delta$H |
| 1   | 133.1       | 133.1           | 131.9       |          |
| 2   | 113.4       | 6.77 (d, 6.4)   | 113.4       | 6.80 (d, 1.4) | 111.2 | 6.69 $^c$ (m) |
| 3   | 149.1       |          | 149.1       | 146.7     |
| 4   | 145.9       |          | 146.0       | 144.1     |
| 5   | 116.2       | 6.74 (d, 8.1)  | 116.3       | 6.71 (d, 8.0) | 114.4 | 6.86 $^c$ (m) |
| 6   | 122.2       | 6.64 (d, 7.6)  | 122.1       | 6.67 (d, 8.0) | 121.1 | 6.69 $^c$ (m) |
| 7   | 34.3 $^c$   | 2.88 $^c$      | 34.3 $^c$   | 2.92 (dd, 13.3, 5.2) | 33.3 | 2.89 (dd, 13.7, 4.9) |
|     | 2.59 (m)    |          | 2.61 (dd, 13.1, 10.6) | 2.57 (m) |
| 8   | 44.3 $^c$   | 2.88 $^c$      | 44.3 $^c$   | 2.87 (m) | 42.7 | 2.77 (m) |
| 9   | 73.7 $^c$   | 4.05 (d, 6.4)  | 73.8 $^c$   | 4.08 (dd, 8.4, 6.4) | 72.8 | 4.09 (m) |
|     | 3.74 (d, 6.1) |          | 3.78 (dd, 8.5, 5.8) | 3.77 (m) |
| 1'  | 134.9       |          | 136.3       | 134.2     |
| 2'  | 111.1       | 6.09 (s)    | 104.7       | 6.63 (s) | 108.5 | 6.86 (m) |
| 3'  | 149.1       |          | 149.3       | 146.7     |
| 4'  | 147.4       |          | 134.3       | 145.3     |
| 5'  | 116.1       | 6.70 (d, 8.0) | 149.3       | 114.2 | 6.83 (m) |
| 6'  | 120.3       | 6.82 (m)    | 104.7       | 6.63 (s) | 118.9 | 6.86 $^c$ (m) |
| 7'  | 85.4 $^c$   | 4.82 (d, 6.9) | 85.7 $^c$   | 4.84 (s) | 83.3 | 4.83 (d, 6.6) |
| 8'  | 50.5 $^c$   | 2.73 (d, 5.9) | 50.5 $^c$   | 2.77 (m) | 49.1 | 2.65 (dt, 14.0, 6.8) |
| 9'  | 64.6 $^c$   | 4.60 (d, 20.0) | 64.7 $^c$   | 4.66 (dd, 11.2, 6.0) | 62.8 | 4.50 (dd, 11.2, 6.9) |
|     | 4.41 (d, 8.0) |          | 4.46 (dd, 11.1, 8.2) | 4.32 (dd, 11.2, 7.4) |
| 1'' | 131.1       |          | 131.2       | 134.3     |
| 2'' | 130.5       | 7.78 (m)    | 130.5       | 7.79 (d, 7.2) | 128.1 | 7.50 (m) |
| 3'' | 129.5       | 7.41 (m)    | 129.6       | 7.42 (t, 7.8) | 128.9 | 7.40 (m) |
| 4'' | 134.3       | 7.55 (t, 6.8) | 134.3       | 7.57 (t, 7.4) | 130.5 | 7.40 (m) |
| 5'' | 129.5       | 7.41 (m)    | 129.6       | 7.42 (t, 7.8) | 128.9 | 7.40 (m) |
| 6'' | 130.5       | 7.78 (m)    | 130.5       | 7.79 (d, 7.2) | 128.1 | 7.50 (m) |
| 7'' | 167.8       |          | 167.8       | 145.3     | 7.58 (d, 16.1) |
| 8'' |          |          | 117.5       | 6.38 (d, 16.0) |
| 9'' |          |          | 166.9       |          |
| 3'-OMe | 56.3       | 3.74 (s)    | 56.7        | 3.90 (s) | 55.9 | 3.86 $^c$ (s) |
| 3''-OMe | 56.3       | 3.80 (s)    | 56.7        | 3.76 $^c$ (s) | 55.9 | 3.86 $^c$ (s) |
| 5''-OMe | 56.4       | 3.76 $^c$   | 56.4        |          |

$^a$Data were measured in CD$_3$OD at 600 MHz ($^1$H NMR, J in Hz) and 150 MHz ($^{13}$C NMR); $^b$Data were measured in CDCl$_3$ at 600 MHz ($^1$H NMR, J in Hz) and 150 MHz ($^{13}$C NMR); $^c$Signals were overlapped.
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