A new unsymmetrical dimeric anthraquinone, 3-demethyl-3-(2-hydroxypropyl)-skyrin (1) was isolated from the solid-state fermentation extract of an endophytic fungal strain Talaromyces sp. YE 3016, together with five known compounds, skyrin (2), oxyskyrin (3), emodin (4), 1,3,6-trihydroxy-8-methyl-anthraquinone (5), and ergosterol (6). The structure of the new compound was elucidated on the basis of spectroscopic analysis. Compounds 1–3 exhibited moderate cytotoxic activities against MCF-7 cell line.

Keywords: Talaromyces sp.; endophytic fungi; dimeric anthraquinone; skyrin
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Table S1. $^1$H and $^{13}$C NMR Data of compound 1 (500 and 125 MHz, respectively, CD$_3$OD, $\delta$ in ppm, $J$ in Hz).

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Figure S2. The $^{13}$C NMR spectrum of compound 1

Figure S3. The HMQC spectrum of compound 1

Figure S4. The HMBC spectrum of compound 1

Figure S5. The $^1$H-$^1$H COSY spectrum of compound 1
Table S1. $^1$H and $^{13}$C NMR Data of compound 1 (500 and 125 MHz, respectively, CD$_3$OD, $\delta$ in ppm, $J$ in Hz).

| position | $^{13}$C  | $^1$H  |
|----------|-----------|--------|
| 1        | 163.0     | -      |
| 1’       | 162.8     | -      |
| 2        | 125.1     | 7.10 (1H, s) |
| 2’       | 124.4     | 7.04 (1H, s) |
| 3        | 150.5     | -      |
| 3’       | 149.3     | -      |
| 4        | 121.7     | 7.38 (1H, s) |
| 4’       | 121.4     | 7.31 (1H, s) |
| 4a, 4’a  | 133.2     | -      |
| 5        | 128.0     | -      |
| 5’       | 127.4     | -      |
| 6, 6’    | 166.3     | -      |
| 7        | 108.2     | 6.69 (1H, s) |
| 7’       | 108.2     | 6.68 (1H, s) |
| 8, 8’    | 165.4     | -      |
| 8a, 8’a  | 110.9     | -      |
| 9, 9’    | 191.9     | -      |
| 9a, 9’a  | 115.1     | -      |
| 10, 10’  | 184.0     | -      |
| 10a, 10’a| 135.0     | -      |
| 11       | 46.4      | 2.72 (2H, d, 4.8) |
| 11’      | 21.9      | 2.34 (3H, s) |
| 12       | 68.8      | 3.96 (1H, m) |
| 13       | 23.2      | 1.16 (3H, d, 6.1) |
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