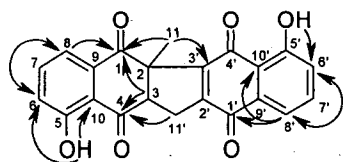


**Supplemental Figure 1. Key HMBC correlations for zeylanone (4).**



Supplemental Table 1.  $^1\text{H}$ -,  $^{13}\text{C}$ -, and DEPT-135 NMR Data for Compounds 1 and 2.

| position | plumbagin (1)       |                 |  | maritinone (2) <sup>a</sup> |                 |  |
|----------|---------------------|-----------------|--|-----------------------------|-----------------|--|
|          | $\delta_{\text{C}}$ | DEPT            | $\delta_{\text{H}}$ , multiplicity ( <i>J</i> in Hz) | $\delta_{\text{C}}$         | DEPT            | $\delta_{\text{H}}$ , multiplicity ( <i>J</i> in Hz) |
| 1        | 184.6               | C               | --   | 185.1                       | C               | --   |
| 2        | 149.5               | C               | --   | 150.0                       | C               | --   |
| 3        | 135.3               | CH              | 6.80 q (1.5)   | 134.9                       | CH              | 6.81 q (1.5)   |
| 4        | 190.1               | C               | --   | 190.5                       | C               | --   |
| 5        | 161.0               | C               | --   | 161.3                       | C               | --   |
| 6        | 124.0               | CH              | 7.25 dd (8.0, 1.5)                                   | 124.3                       | CH              | 7.21 d (8.7)   |
| 7        | 136.0               | CH              | 7.60 dd (8.0, 7.5)                                   | 137.9                       | CH              | 7.29 d (8.7)   |
| 8        | 119.1               | CH              | 7.63 dd (7.5, 1.5)                                   | 128.2                       | C               | --   |
| 9        | 132.0               | C               | --   | 135.5                       | C               | --   |
| 10       | 115.0               | C               | --   | 115.4                       | C               | --   |
| 11       | 16.4                | CH <sub>3</sub> | 2.19 d (1.5)   | 16.6                        | CH <sub>3</sub> | 2.01 d (1.5)   |
| OH-5     | --                  | --              | 11.97 s  | --                          | --              | 12.57 s  |

<sup>a</sup>Has a C-2 plane of symmetry relative to the 8-8' bond. Thus, the chemical shift values are equivalent for both halves of the molecule.

Supplemental Table 2. <sup>1</sup>H-, <sup>13</sup>C-, DEPT-135, and HMBC NMR Data for Compounds 3 and 4.

| position | chitranone (3)     |                 |                                     |                         | zeylanone (4) |                 |                                     |                                 |
|----------|--------------------|-----------------|-------------------------------------|-------------------------|---------------|-----------------|-------------------------------------|---------------------------------|
|          | $\delta_C$         | DEPT            | $\delta_H$ , multiplicity (J in Hz) | HMBC (H→C) correlations | $\delta_C$    | DEPT            | $\delta_H$ , multiplicity (J in Hz) | HMBC (H→C) correlations         |
| 1        | 184.1              | C               | --                                  | --                      | 196.8         | C               | --                                  | --                              |
| 2        | 147.7              | C               | --                                  | --                      | 61.6          | C               | --                                  | --                              |
| 3        | 141.3              | C               | --                                  | --                      | 56.9          | CH              | 3.43 dd (9.0, 6.5)                  | 33.9, 61.6, 150.6, 196.8, 201.9 |
| 4        | 188.3 <sup>a</sup> | C               | --                                  | --                      | 201.9         | C               | --                                  | --                              |
| 5        | 161.5              | C               | --                                  | --                      | 162.3         | C               | --                                  | --                              |
| 6        | 124.3              | CH              | 7.27 dd (8.0, 1.5)                  | 114.9, 119.3            | 124.1         | CH              | 7.29 dd (8.5, 1.0)                  | 116.4, 119.3, 162.3             |
| 7        | 136.3              | CH              | 7.64 dd (8.0, 7.5)                  | 132.1, 161.5            | 138.0         | CH              | 7.70 dd (8.5, 7.5)                  | 134.7, 162.3                    |
| 8        | 119.3              | CH              | 7.71 dd (7.5, 1.5)                  | 114.9, 124.3, 184.1     | 119.3         | CH              | 7.55 dd (7.5, 1.0)                  | 116.4, 124.1, 196.8             |
| 9        | 132.1              | C               | --                                  | --                      | 134.7         | C               | --                                  | --                              |
| 10       | 114.9              | C               | --                                  | --                      | 116.4         | C               | --                                  | --                              |
| 11       | 14.7               | CH <sub>3</sub> | 2.06 s                              | 141.3, 147.7, 184.1     | 22.2          | CH <sub>3</sub> | 1.85 s                              | 149.5, 196.8                    |
| OH-5     | --                 | --              | 11.94 s                             | 114.9, 124.3, 161.5     | --            | --              | 12.19 s                             | 116.4, 124.1, 162.3             |
| 1'       | 184.4              | C               | --                                  | --                      | 182.2         | C               | --                                  | --                              |
| 2'       | 149.9              | C               | --                                  | --                      | 150.6         | C               | --                                  | --                              |
| 3'       | 135.4              | CH              | 6.86 q (1.5)                        | 16.5, 115.3, 184.4      | 149.5         | C               | --                                  | --                              |
| 4'       | 190.4 <sup>a</sup> | C               | --                                  | --                      | 187.9         | C               | --                                  | --                              |
| 5'       | 158.5              | C               | --                                  | --                      | 162.1         | C               | --                                  | --                              |
| 6'       | 128.7              | C               | --                                  | --                      | 125.2         | CH              | 7.28 dd (7.5, 2.0)                  | 115.7, 119.3                    |
| 7'       | 137.0              | CH              | 7.49 d (7.5)                        | 132.5, 141.3, 158.5     | 136.2         | CH              | 7.60 dd (8.0, 7.5)                  | 132.5, 162.1                    |
| 8'       | 118.7              | CH              | 7.75 d (7.5)                        | 115.3, 128.7, 184.4     | 119.3         | CH              | 7.62 dd (8.0, 2.0)                  | 115.7, 125.2, 182.2             |
| 9'       | 132.5              | C               | --                                  | --                      | 132.5         | C               | --                                  | --                              |
| 10'      | 115.3              | C               | --                                  | --                      | 115.7         | C               | --                                  | --                              |
| 11'      | 16.5               | CH <sub>3</sub> | 2.23 d (1.5)                        | 135.4, 149.9, 184.4     | 33.9          | CH <sub>2</sub> | 3.10 (16.5, 6.5)                    | 56.9, 149.5, 201.9              |
| OH-5'    | --                 | --              | 12.28 s                             | 115.3, 128.7, 158.5     | --            | --              | 3.47 (16.5, 9.0)                    | 56.9, 61.6                      |
|          |                    |                 |                                     |                         |               |                 | 12.08 s                             | 115.7, 125.2, 162.1             |

<sup>a</sup> Interchangeable.