Supporting information

3-Carboxylate Substituted Isoindolinones in K$_2$CO$_3$ Catalyzed Michael Reactions.

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MATERIALS AND METHODS

All reactions were performed using commercially available compounds without further purification. Isoindolinones were prepared according to reported procedures. Column chromatographic purification of products was carried out using silica gel 60 (70–230 mesh, Merck). The NMR spectra were recorded on Bruker DRX 400, 300, 250 spectrometers (400 MHz, 300 MHz, 250 MHz, 1H; 100 MHz, 75 MHz, 62.5 MHz 13C). Spectra were referenced to residual CHCl₃ (7.26 ppm, 1H, 77.23 ppm, 13C). Coupling constants J are reported in Hz. Yields are given for isolated products showing one spot on a TLC plate and no impurities detectable in the NMR spectrum. Mass spectral analyses were carried out using an electrospray spectrometer, Waters 4 micro quadrupole. Elemental analyses were performed with FLASHEA 1112 series-Thermo Scientific for CHNS-O apparatus.

The isoindolinones 1a, 1b and 1c were synthesized according to reported procedures; only 1b has never been described and the spectroscopic data are given.

1a. Ethyl 2-(phenylmethyl)phthalimidine-3-carboxylate

Yield 87%; solid, mp 75°-76°C. Anal. Calcd. for C₁₈H₁₇NO₃: C, 73.20; H, 5.80; N, 4.74. Found: C, 73.30; H, 5.75; N, 4.65.

1b. Ethyl 2-butyl-3-oxoisoindoline-1-carboxylate

Yield 85%; oil. ¹H-NMR (400 MHz, CDCl₃) δ: 7.99-7.95 (m, 1H, Ar), 7.74-7.45 (m, 3H), 5.31 (s, 1H, CH), 4.47-4.24 (m, 2H, CH₂), 4.23-4.15 (m, 1H, CH), 3.43-3.32 (m, 1H, CH₂), 1.79-1.69 (m, 2H, CH₂), 1.54-1.35 (m, 5H, CH₂-CH₂-CH₂), 1.07 (t, 3H, J =7.2 Hz, CH₃). ¹³C-NMR (100 MHz, CDCl₃) δ: 168.7, 168.5, 139.5, 132.2, 131.9, 129.3, 124.0, 122.7, 62.3, 62.2, 41.3, 30.2, 20.3, 14.3, 13.9. MS (ESI): m/z = 262 (M + H⁺), Anal. calcd for C₁₅H₁₉NO₃ C, 68.94; H, 7.33; N, 5.36; found C, 68.83; H, 7.46; N, 5.30.

1c. Ethyl 3-oxoisoindoline-1-carboxylate

Yield 90%; solid, mp 90-91°C. Anal. Calcd. for C₁₁H₁₀NO₃: C, 64.38; H, 5.40; N, 6.63. Found: C, 64.30; H, 5.49; N, 6.55.
General procedure for K$_2$CO$_3$ catalyzed Michael reaction of isoindolinones **1**.

The Michael acceptor (1.5 eq.) was added at r.t. to a solution of isoindolinones **1** (0.10 mmol) and K$_2$CO$_3$ (0.5 eq, 0.05 mmol) in CH$_3$CN (1 mL). The reaction was stirred until the disappearance of **1** detected by TLC, then the solvent was evaporated and the mixture purified directly on chromatographic column in 8/2 hexane/ethyl acetate, affording the adducts **2** (or **3**) in the range of 75-99% yields.

### 2a. Ethyl 2-benzyl-3-oxo-1-(3-oxobutyl)isoindoline-1-carboxylate

![Structure of ethyl 2-benzyl-3-oxo-1-(3-oxobutyl)isoindoline-1-carboxylate](image)

Reacting **1a** (0.1 mmol, 30 mg), methyl vinyl ketone (1.5 eq, 11 mg, 13 μL) and K$_2$CO$_3$ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 33 mg, 90%. $^1$H-NMR (400 MHz, CDCl$_3$) δ: 7.91 (d, $J$=8 Hz, 1H, Ar), 7.55-7.46 (m, 2H, Ar), 7.4 (m, 3H, Ar), 7.27 (q, $J$=7.6Hz, 3H, Ar), 5.1 (d, $J$=15.2Hz, 1H, N-CHH), 4.3 (d, $J$=15.2 Hz, 1H, N-CHH), 4.0 (q, $J$=7.2 Hz, 2H, CH$_2$), 2.74-2.67 (m, 1H, CHH), 2.39-2.35 (m, 1H, CHH), 1.61 (s, 3H, CH$_3$), 1.48-1.41 (m, 2H, CH$_2$), 1.09 (t, $J$=7.0 Hz, 3H, CH$_3$). $^{13}$C-NMR (100 MHz) δ: 206.5, 169.8, 169.1, 142.9, 137.2, 132.2, 131.5, 129.2, 129.0, 128.4, 127.6, 123.9, 121.4, 71.6, 62.1, 44.7, 35.9, 29.4, 26.2, 13.7. MS (ESI): m/z = 366 (M + H$^+$), Anal. calcd for C$_{22}$H$_{23}$NO$_4$ C, 72.31; H, 6.34; N, 3.83; found C, 72.20; H, 6.45; N, 3.70;

### 2b. Ethyl 2-butyl-3-oxo-1-(3-oxobutyl)isoindoline-1-carboxylate

Reacting **1b** (0.1 mmol, 26 mg), methyl vinyl ketone (1.5 eq, 11 mg, 13 μL) and K$_2$CO$_3$ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 30 mg, 89%. $^1$H-NMR (400 MHz, CDCl$_3$) δ: 7.84 (d, $J$=7.4Hz, 1H, Ar), 7.56-7.47 (m, 2H, Ar), 7.40 (d, $J$=7.1Hz, 1H, Ar), 4.18-4.09 (m, 2H, CH$_2$), 3.44-3.36 (m, 1H, CHH), 3.34-3.31 (m, 1H, CHH), 2.86-2.78 (m, 1H, CHH), 2.54-2.47 (m, 1H, CHH), 2.03-1.94 (m, 1H, CHH), 1.75 (s, 3H, CH$_3$), 1.73-1.68 (m, 2H, CH$_2$), 1.61-1.55 (m, 1H, CHH), 1.39 (q, $J$= 7.5Hz, 2H, CH$_2$), 1.16 (t, $J$= 7.1 Hz, 3H, CH$_3$), 0.94 (t, $J$= 7.3 Hz, 3H, CH$_3$). $^{13}$C-NMR (100 MHz) δ: 206.6, 170.2, 169.1, 142.8, 132.1, 132.0, 129.2, 123.6, 121.6, 71.3, 62.1, 41.5, 36.4, 30.3, 29.9, 25.9, 20.5, 13.8, 13.6. MS (ESI): m/z = 332 (M + H$^+$), Anal. calcd for C$_{19}$H$_{25}$NO$_4$ C, 68.86; H, 7.60; N, 4.23; C, 68.94; H, 7.75; N, 4.15.
2c. Ethyl 3-oxo-1-(3-oxobutyl)isoindoline-1-carboxylate

Reacting 1c (0.1 mmol, 20 mg), methyl vinyl ketone (1.5 eq, 11 mg, 13 μL) and K₂CO₃ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 23 mg, 85%. ¹H-NMR (400 MHz, CDCl₃) δ: 7.82 (d, J = 7.28, 1H, Ar), 7.63-7.51 (m, 3H, Ar), 6.68 (brs, 1H, NH), 4.22 (q, J = 6.6Hz, 2H, CH₂), 2.56-2.25 (m, 2H, CH₂), 2.19-2.12 (m, 2H, CH₂), 2.03 (s, 3H, CH₃), 1.26 (t, J =7.1 Hz, 3H, CH₃).

¹³C-NMR (100 MHz) δ: 206.8, 170.3, 169.8, 144.1, 132.6, 131.0, 129.3, 123.8, 123.3, 67.0, 62.4, 37.1, 30.9, 29.9, 13.9. MS (ESI): m/z = 276 (M + H⁺), Anal. calcd for C₁₅H₁₇NO₄ C, 65.44; H, 6.22; N, 5.09; found C, 65.54; H, 6.34; N, 5.15.

2d. Ethyl 2-benzyl-3-oxo-1-(3-oxopentyl)isoindoline-1-carboxylate

Reacting 1a (0.1 mmol, 30 mg), ethyl vinyl ketone (1.5 eq, 13 mg, 15 μL) and K₂CO₃ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 36 mg, 95%. ¹H-NMR (400 MHz, CDCl₃) δ: 7.89 (d, J = 1.5 Hz, 1H, Ar), 7.87-7.43 (m, 3H, Ar), 7.38-7.35 (m, 1H, Ar), 7.27-7.20 (m, 4H, Ar), 5.06 (d, J=15.3Hz, 1H, N-CHH), 4.31 (d, J=15.3Hz, 1H, N-CHH), 3.97-3.92 (m, 2H, CH₂), 2.72-2.67 (m, 1H, CHH), 2.44-2.33 (m, 1H, CHH), 1.80-1.76 (m, 2H, CH₂), 1.08-1.02 (m, 3H, CH₃), 0.72 (t, J = 7.3Hz, 3H, CH₃). ¹³C-NMR (100 MHz) δ: 209.6, 170.2, 169.5, 143.7, 137.9, 132.5, 131.9, 129.5, 129.4, 128.7, 127.8, 124.2, 121.9, 72.0, 62.4, 45.1, 35.7, 35.0, 26.5, 14.0, 8.2MS (ESI): m/z = 380 (M + H⁺), Anal. calcd for C₂₃H₂₅NO₄ C, 72.80; H, 6.64; N, 3.69; found C, 72.95; H, 6.60; N, 3.59.

2e. Ethyl 2-benzyl-3-oxo-1-(3-oxopropyl)isoindoline-1-carboxylate

Reacting 1a (0.1 mmol, 30 mg), acrolein (1.5 eq, 8 mg, 10 μL) and K₂CO₃ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 32 mg, 90%. ¹H-NMR (300 MHz,CDCl₃) δ: 9.10 (s, 1H, CHO), 7.89-7.86 (m, 1H, Ar), 7.88-7.41 (m, 6H, Ar), 7.37-7.20 (m, 2H, Ar), 5.07 (d, J=15.2Hz, 1H, N-CHH), 4.31 (d, J=15.2Hz, 1H, N-CHH), 3.91-3.75 (m, 2H, CH₂), 2.75-2.65 (m, 1H, CHH), 2.44-2.34 (m, 1H, CHH), 1.48 (t, J=7.7Hz, 2H, CH₂), 1.05 (t, J=7.1Hz, 3H, CH₃). ¹³C-NMR (75 MHz) δ: 200.0, 170.1,
169.4, 143.0, 137.4, 132.6, 131.9, 129.7, 128.8, 128.0, 124.4, 121.6, 71.7, 62.5, 45.1, 37.2, 24.8, 14.0. MS (ESI): m/z = 352 (M + H<sup>+</sup>), Anal. calcd for C<sub>21</sub>H<sub>21</sub>NO<sub>4</sub> C, 71.78; H, 6.02; N, 3.99; found C, 71.90; H, 6.12; N, 3.87

2f. Ethyl 2-butyl-1-(3-methoxy-3-oxopropyl)-3-oxoisooindoline-1-carboxylate

Reacting 1b (0.1 mmol, 26 mg), methyl acrilate (1.5 eq, 13 mg, 14 μL) and K<sub>2</sub>CO<sub>3</sub> (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 26 mg, 75%. 1H-NMR (250 MHz, CDCl<sub>3</sub>) δ: 7.82 (d, J =6.5Hz, 1H, Ar), 7.54-7.40 (m, 3H, Ar), 4.19-4.08 (m, 2H, Ar), 3.55 (s, 3H, CH<sub>3</sub>), 3.47-3.32 (m, 2H, CH<sub>2</sub>), 2.94-2.84 (m, 1H, CH<sub>2</sub>), 2.62-2.51 (m, 1H CH/H<sub>2</sub>), 1.95-1.83 (m, 1H CH/H<sub>2</sub>), 1.73-1.62 (m, 3H, CH<sub>2</sub>-C/H<sub>2</sub>), 1.4 (q, J =7.3Hz, 2H, CH<sub>2</sub>), 1.15 (t, J =7.1Hz, 3H, CH<sub>3</sub>). 0.92 (t, J =7.1Hz, 3H, CH<sub>3</sub>). 13C-NMR (60 MHz) δ: 172.6, 170.2, 169.1, 142.5, 132.1, 131.9, 129.2, 123.7, 121.4, 71.3, 62.2, 51.6, 41.5, 30.3, 27.5, 27.4, 20.5, 13.7, 13.6. MS (ESI): m/z = 348 (M + H<sup>+</sup>), Anal. calcd for C<sub>19</sub>H<sub>25</sub>NO<sub>5</sub> C, 65.69; H, 7.25; N, 4.03; found C, 65.80; H, 7.40; N, 4.09.

2g. Ethyl 2-butyl-1-(2-cyanoethyl)-3-oxoisooindoline-1-carboxylate

Reacting 1b (0.1 mmol, 26 mg), acrylonitrile (1.5 eq, 8 mg, 10 μL) and K<sub>2</sub>CO<sub>3</sub> (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 31 mg, 97%. 1H-NMR (250 MHz, CDCl<sub>3</sub>) δ: 7.86-7.83 (m, 1H, Ar), 7.84-7.50 (m, 2H, Ar), 7.44-7.41 (m, 1H, Ar), 4.20-4.05 (m, 2H, CH<sub>2</sub>), 3.51-3.42 (m, 1H, CH/H<sub>2</sub>), 3.37-3.27 (m, 1H, CH/H<sub>2</sub>), 2.98-2.86 (m, 1H, CH/H<sub>2</sub>), 2.65-2.53 (m, 1H, CH/H<sub>2</sub>), 1.99-1.86 (m, 1H, CH/H<sub>2</sub>), 1.73-1.65 (m, 2H, CH<sub>2</sub>), 1.41 (q, J =7.2Hz, 2H, CH<sub>2</sub>), 1.27-1.25 (m, 1H, CH/H<sub>2</sub>), 1.15 (t, J =7.1Hz, 3H, CH<sub>3</sub>), 0.92 (t, J =7.1Hz, 3H, CH<sub>3</sub>). 13C-NMR (60 MHz) δ: 172.6, 170.2, 169.1, 142.5, 132.1, 131.9, 129.2, 123.7, 121.4, 71.3, 62.2, 51.6, 41.5, 30.3, 27.5, 27.4, 20.5, 13.7, 13.6. MS (ESI): m/z = 315 (M + H<sup>+</sup>), Anal. calcd for C<sub>18</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub> C, 68.77; H, 7.25; N, 4.03; found C, 68.50; H, 7.40; N, 4.09.

2h. Ethyl 3-oxo-1-(4-oxopentan-2-yl)isooindoline-1-carboxylate

Reacting 1c (0.1 mmol, 20 mg), 3-penten-2-one (1.5 eq, 13 mg, 14 μL) and K<sub>2</sub>CO<sub>3</sub> (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a mixture of diastereomers, 28 mg, 95%. 1H-NMR (400 MHz,
CDCl₃ δ: 7.81 (d, J=7.5 Hz, 1H, Ar), 7.69 (d, J=7.7 Hz, 1H, Ar), 7.60 (t, J=7.5 Hz, 1H, Ar), 7.5 (t, J=7.5 Hz, 1H, Ar), 7.18 (brs, 1H, NH), 7.07 (brs, 1H, NH, minor diastereomer), 4.22-4.16 (m, 2H, CH₂), 3.19-3.14 (m, 1H, CH), 2.50 (dd, J=16.8 Hz, 3.6 Hz, 1H, CH), 2.41 (dd, J=16.8 Hz, 9.2 Hz, 1H, minor diastereomer), 2.17 (s, 3H, CH₃), 1.87 (s, 1H, minor diastereomer), 1.26-1.19 (m, 3H, CH₃), 1.08 (d, J=9.2 Hz, 2H, CH₂), 0.59 (t, J=6.7 Hz, 3H, CH₃). 13C-NMR (100 MHz, CDCl₃) δ: 206.6, 170.9, 170.8, 144.4, 132.7, 131.6, 129.5, 123.8, 123.7, 71.5, 62.6, 46.3, 35.7, 30.9, 14.2, 13.6. MS (ESI): m/z = 290 (M + H⁺), Anal. calcd for C₁₆H₁₉NO₄: C, 64.42; H, 6.62; N, 4.84; found: C, 64.55; H, 6.52; N, 4.71.

2. Ethyl 3-oxo-1-(3-oxo-1,3-diphenylpropyl)isoindoline-1-carboxylate

Reacting 1c (0.1 mmol, 20 mg), chalcone (1.5 eq, 31 mg, 29 μL) and K₂CO₃ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a mixture of diastereomers, 38 mg, 92%. 1H-NMR (300 MHz, CDCl₃) δ: 8.39 (brs, 1H, NH) 7.97 (d, J=7.4 Hz, 2H, Ar) 7.79 (d, J=7.7 Hz, 1H, Ar), 7.58-7.49 (m, 3H, Ar) 7.43-7.31 (m, 4H, Ar) 7.13 (d, J=6.7 Hz, 2H, Ar) 6.98 (d, J=6.7 Hz, Ar), 6.60 (brs, 1H, minor diast.), 4.68-4.65 (m, 1H, minor diast.), 4.57 (dd, 1H, J₂=3.9 Hz, J₁=10 Hz, CH), 4.23 (q, 2H, J=7.2 Hz, CH₂), 4.01 (dd, J₂=10 Hz, J₁=17 Hz, 1H, CH), 3.36 (dd, 1H, J₂=3.8 Hz, J₁=17 Hz, CH), 2.55-2.50 (m, 1H, minor diast.) 1.26 (t, J=7.2 Hz, 3H, CH₃) 1.08 (t, J=7.2 Hz, minor diast., 3H, CH₃). 13C-NMR (60 MHz) (CDCl₃) δ: 196.8, 170.9, 170.2, 143.9, 136.6, 136.5, 133.1, 131.8, 128.9, 128.4, 128.3, 128.1, 127.6, 127.0, 124.1, 123.3, 71.5, 62.6, 47.2, 40.0, 13.89. MS (ESI): m/z = 414 (M + H⁺), Anal. calcd for C₂₆H₂₃NO₄: C, 75.53; H, 5.61; N, 3.39; found: C, 75.40; H, 5.75; N, 3.25.

3a. Ethyl 2,3,5,9b-tetrahydro-3-hydroxy-5-oxo-1H-pyrrolo[2,1-a]isoindole-9b-carboxylate

Reacting 1c (0.1 mmol, 20 mg), acrolein (1.5 eq, 8 mg, 10 μL) and K₂CO₃ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a wax-like solid, 24 mg, 90%. 1H-NMR (300 MHz, CDCl₃) δ: 7.77 (d, J=7.1 Hz, 1H, Ar), 7.61-7.45 (m, 3H, Ar), 5.71 (q, J=6.3 Hz, 1H, CH), 4.26-4.21 (m, 2H, CH₂), 3.63 (d, 1H, J=6.1 Hz, OH), 2.80-2.70 (m, 1H, CHH'H), 2.68-2.63 (m, 1H, CH'H), 2.24-2.18 (m, 1H, CHH), 1.72-1.67 (m, 1H, CHH'), 1.25 (t, J=6.9 Hz, 3H, CH₃). 13C-NMR (100 MHz) δ: 171.4, 171.0, 145.1, 133.2, 131.9, 129.7, 124.9, 123.3, 80.2, 75.5, 62.7, 37.9, 34.2, 14.2. MS (ESI): m/z = 262 (M + H⁺), Anal. calcd for C₁₄H₁₅NO₄: C, 64.36; H, 5.79; N, 5.36; found: C, 64.51; H, 5.65; N, 5.43.
3b. Ethyl 2,3,5,9b-tetrahydro-3-hydroxy-5-oxo-1-phenyl-1H-pyrrolo[2,1-a]isoindole-9b-carboxylate

Reacting 1c (0.1 mmol, 20 mg), cinnamaldehyde (1.5 eq, 19 mg, 20 μL) and K$_2$CO$_3$ (0.5 eq, 0.05 mmol, 7 mg), the title compound was obtained as a mixture of diastereomers, 34 mg, 99%. $^1$H-NMR 300 MHz (CDCl$_3$) $\delta$: 7.85-7.80 (m, 1H, minor diast., Ar), 7.59-7.55 (m, 1H, Ar), 7.43-7.40 (m, minor diast., Ar), 7.29-7.22 (m, 3H, Ar), 7.10-6.91 (m, 3H, Ar), 6.79 (dd, 2H, $J_2=1.5$Hz, $J_1=6.2$Hz), 6.12 (q, 1H, $J=6.4$Hz), 5.82 (t, $J=5.3$ Hz, minor diast., 1H, CH), 4.39-4.20 (m, 3H), 3.99-3.84 (m, minor diast.). 3.64 (d, 1H, $J=6.3$Hz), 3.13 (q, $J=7.0$Hz, minor diast.), 2.90 (dd, 1H, $J=2.6$Hz, $J=6.7$Hz, $J=12$Hz), 2.70 (dd, 1H, $J=4.7$Hz, $J=7.7$Hz, $J=13$Hz), 1.35 (t, $J=7.1$Hz, 3H, CH$_3$) 0.93 (t, $J=7.1$Hz minor diast., 3H, CH$_3$). $^{13}$C-NMR 75MHz (CDCl$_3$) $\delta$: 171.7, 170.0, 143.3, 141.9, 138.2, 134.7, 132.2, 132.0, 129.5, 129.0, 128.6, 128.2, 127.9, 127.7, 127.0, 125.4, 124.3, 124.0, 79.4, 79.0, 62.7, 62.3, 54.5, 50.0, 44.5, 43.2, 14.0, 13.2. MS (ESI): m/z = 338 (M + H$^+$), Anal. calcd for C$_{20}$H$_{19}$NO$_4$: C, 71.20; H, 5.68; N, 4.15; found: C, 71.32; H, 5.77; N, 4.02.

4. Ethyl 2,3,5,9b-tetrahydro-3-oxo-5-oxo-1-phenyl-1H-pyrrolo[2,1-a]isoindole-9b-carboxylate

A mixture of compound 3b (1 eq., 20 mg, 0.06 mmol) and pyridinium chlorochromate (6 eq., 38 mg, 0.36 mmol) in dichloromethane (1.5 mL) was stirred for 24 h at room temperature. The solid was filtered off and the residue purified by chromatography column in 8/2 hexane/ethyl acetate, affording the product 4 as a white solid. The title compound was obtained as a mixture of diastereomers, 20 mg, 95%. $^1$H-NMR 300MHz (CDCl$_3$) $\delta$: 7.93 (d, $J=8.7$ Hz, 1H, minor diast., Ar), 7.68 (d, $J=7.5$ Hz, 1H, Ar), 7.43-7.40 (m, minor diast., Ar), 7.39-7.32 (m, 4H, Ar), 7.04-6.96 (m, 4H, Ar), 4.39 (d, $J=7.8$ Hz, 1H), 4.33-4.20 (m, 2H), 4.01-3.49 (m, 1H, minor diast.), 3.40 (dd, 2H, $J_2=7.7$, $J_1=17$ Hz), 2.97 (d, 1H, $J=16$ Hz, minor diast.), 2.94 (d, 1H, $J=17$ Hz), 1.25 (t, $J=7$ Hz, 3H, CH$_3$) 0.97 (t, $J=7.2$ Hz minor diast., 3H, CH$_3$). $^{13}$C-NMR 75MHz (CDCl$_3$) $\delta$: 171.4, 170.6, 170.1, 167.2, 164.6, 163.7, 143.3, 141.5, 137.2, 134.1, 133.9, 133.6, 130.6, 130.5, 129.0, 128.9, 128.0, 126.9, 126.0, 125.8, 125.5, 124.6, 63.4, 62.2, 51.8, 46.7, 42.4, 40.3, 14.1, 13.8. MS (ESI): m/z = 336 (M + H$^+$), Anal. calcd for C$_{20}$H$_{17}$NO$_4$: C, 71.63; H, 5.11; N, 4.18; found: C, 71.52; H, 5.27; N, 4.02.
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