Supporting Information

Methoxy-Substituted Hydroxychalcone Reduces Biofilm Production, Adhesion and Surface Motility of *Acinetobacter baumannii* by Inhibiting *ompA* Gene Expression

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Methoxy-Substituted Hydroxychalcone Reduces Biofilm Production, Adhesion and Surface Motility of *Acinetobacter baumannii* by Inhibiting *ompA* Gene Expression

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Supplementary Figure S1. Biofilm production of two A. baumannii strains treated with compounds 1-4, each at 70 μg ml⁻¹, compared to control, expressed as OD values of the extracted safranin dye at 490 nm. Data are presented as mean values of three experiments (± SD). *P < 0.05, **P < 0.01, ***P < 0.001 compared to the control group.
Supplementary Figure S2. Effects of compound \( \text{1} \) on \( A. \baumannii \) cell growth at three different sub-MICs compared to control. Data are presented as mean values of three experiments (± SD).
Spectral data of previously published compounds:

\((E)-1\text{-}(2\text{-hydroxyphenyl})\text{-}3\text{-}(2\text{-methoxyphenyl})\text{-}prop\text{-}2\text{-en\text{-}1\text{-one}} (1)\)

Yellow crystals, Yield: 89.05%, m.p. 101.4 °C . IR (ATR): 1637.1, 1599.4, 1487.2, 1463.2, 1338.9, 1301.8, 1250.1, 1161.4, 1107.8, 1022.7, 865.5, 804.2, 726.7, 662.8. \(^1H\) NMR (400 MHz, CDCl\(_3\)): 12.93 (s, -OH, 1H); 8.25 (d, J=15.6, a, 1H); 7.94 (d, J=8, ArH-C(6'), 1H); 7.81 (d, J=15.6, b, 1H); 7.66 (d, J=8, ArH-C(6), 1H); 7.51 (t, J=8, ArH-C(4'), 1H); 7.43 (t, J=8, ArH-C(4), 1H); 7.03-6.92 (m, ArH-C(3), ArH-C(3'), ArH-C(3'), ArH-C(3'), 4H); 3.95 (s, -CH\text{3}, 3H). \(^{13}C\) NMR (100 MHz, CDCl\(_3\)): 194.33; 163.61; 159.07; 141.14; 136.13; 132.18; 129.71; 129.66; 123.71; 120.87; 120.83; 120.24; 118.74; 118.57; 111.35; 55.62. HRMS (ESI) m/z calcd for C\(_{16}\)H\(_{14}\)O\(_3\) [M]+ 254.281 found 254.900.
Supplementary Figure S3. $^1$H NMR spectrum of compound 1.
Supplementary Figure S4. $^{13}$C NMR spectrum of compound 1.
Supplementary Figure S5. $^1$H NMR spectrum of compound 2.
Supplementary Figure S6. $^{13}$C NMR spectrum of compound 2.
Supplementary Figure S7. $^{19}$F NMR spectrum of compound 2.
Supplementary Figure S8. $^1$H NMR spectrum of compound 3.
Supplementary Figure S9. $^{13}$C NMR spectrum of compound 3.
Supplementary Figure S10. $^{19}$F NMR spectrum of compound 3.
Supplementary Figure S11. $^1$H NMR spectrum of compound 4.
Supplementary Figure S12. $^{13}$C NMR spectrum of compound 4.
Supplementary Figure S13. $^{19}\text{F}$ NMR spectrum of compound 4.