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Supplementary Material

1-(2-Formylbenzyl)-2-methoxybenzimidazole (6a). mp 140-141 °C (CH₂Cl₂ - *n*-hexane), ¹H NMR δ 4.18 (s, 3H), 5.67 (s, 2H), 6.97 - 7.95 (m, 8H), 10.23 (s, H); IR (neat) 2840, 2730, 1679 cm⁻¹; MS (m/z) 266 (M⁺). Anal. Calcd for C₁₆H₁₄N₂O₂: C, 64.41; H, 4.73; N, 9.39. Found: C, 64.45; H, 6.75; N, 9.40.

2-Ethoxy-1-(2-formylbenzyl)benzimidazole (6b). mp 124 - 125.5 °C (CH₂Cl₂ - *n*-hexane), ¹H NMR δ 1.40 (t, 3H, *J* = 6.7 Hz), 4.54 (q, 2H, *J* = 6.7 Hz), 5.69 (s, 2H), 6.73 - 8.07 (m, 8H), 10.23 (s, 1H); IR (neat) 2870, 2758, 1678 cm⁻¹; MS (m/z) 280 (M⁺). Anal. Calcd for C₁₇H₁₆N₂O₂: C, 72.83; H, 5.75; N, 9.99. Found: C, 72.69; H, 5.71; N, 9.96.

1-(2-Formylbenzyl)-2-(*n*-propoxy)benzimidazole (6c). mp 134 - 135 °C (CH₂Cl₂ - *n*-hexane), ¹H NMR δ 0.92 (t, 3H, *J* = 6.6 Hz), 1.62 - 1.93 (m, 2H), 4.51 (t, 2H, *J* = 6.6 Hz), 5.68 (s, 2H), 6.85 - 7.95 (m, 8H), 10.24 (s, 1H); IR (neat) 2880, 2763, 1683 cm⁻¹; MS (m/z) 294 (M⁺). Anal. Calcd for C₁₈H₁₈N₂O₂: C, 73.45; H, 6.16; N, 9.52. Found: C, 73.40; H, 6.09; N, 9.48.

2-(*n*-Butoxy)-1-(2-formylbenzyl)benzimidazole (6d). mp 107 - 108 °C (CH₂Cl₂ - *n*-hexane), ¹H NMR δ 0.90 (t, 3H, *J* = 6.7 Hz), 1.16 - 1.85 (m, 4H), 4.56 (t, 2H, *J* = 6.7 Hz), 5.65 (s, 2H), 6.93 - 7.95 (m, 8H), 10.24 (s, 1H); IR (neat) 2865, 2743, 1692 cm⁻¹; MS (m/z) 308 (M⁺). Anal. Calcd for C₁₉H₂₀N₂O₂: C, 74.00; H, 6.54; N, 9.08. Found: C, 73.86; H, 6.47; N, 9.01.

1-(2-Formylbenzyl)-2-(*n*-pentoxy)benzimidazole (6e). mp 105 - 107 °C (CH₂Cl₂ - *n*-hexane), ¹H NMR δ 0.90 (t, 3H, *J* = 6.5 Hz), 1.24 - 1.77 (m, 6H), 4.56 (t, 2H, *J* = 6.5 Hz), 5.67 (s, 2H), 6.84 - 7.64 (m, 8H), 10.24 (s, 1H); IR (neat) 2823, 2730, 1689 cm⁻¹; MS (m/z) 322 (M⁺). Anal. Calcd for C₂₀H₂₂N₂O₂: C, 74.51; H, 6.88; N, 8.69. Found: C, 74.48; H, 6.73; N, 8.55.

2-Benzyloxy-1-(2-formylbenzyl)benzimidazole (6f). liquid, ^1H NMR δ 5.60 (s, 2H), 5.69 (s, 2H), 6.73 - 8.07 (m, 13H), 10.23 (s, 1H); IR (neat) 2870, 2758, 1678 cm^{-1} ; MS (m/z) 342 (M^+). Anal. Calcd for $\text{C}_{22}\text{H}_{18}\text{N}_2\text{O}_2$: C, 77.17; H, 5.30; N, 8.18. Found: C, 77.01; H, 5.24; N, 8.20.

1-(2-Formylbenzyl)-2-(*i*-propoxy)benzimidazole (6g). mp 143 - 144 $^\circ\text{C}$ (CH_2Cl_2 - *n*-hexane), ^1H NMR δ 1.41 (d, 6H, $J = 6.5$ Hz), 5.40 (m, 1H), 5.62 (s, 2H), 6.80 - 7.89 (m, 8H), 10.18 (s, 1H); IR (neat) 2865, 2743, 1692 cm^{-1} ; MS (m/z) 294 (M^+). Anal. Calcd for $\text{C}_{18}\text{H}_{18}\text{N}_2\text{O}_2$: C, 73.45; H, 6.16; N, 9.52. Found: C, 73.45; H, 6.06; N, 9.65.

2-Cyclohexyloxy-1-(2-formylbenzyl)benzimidazole (6h). mp 105 - 107 $^\circ\text{C}$ (CH_2Cl_2 - *n*-hexane), ^1H NMR δ 1.08 - 2.18 (m, 10H), 5.30 - 5.70 (m, 1H), 5.66 (s, 2H), 6.80 - 7.56 (m, 8H), 10.25 (s, 1H); IR (neat) 2880, 2760, 1696 cm^{-1} ; MS (m/z) 334 (M^+). Anal. Calcd for $\text{C}_{21}\text{H}_{22}\text{N}_2\text{O}_2$: C, 75.42; H, 6.63; N, 8.38. Found: C, 75.38; H, 6.47; N, 8.21.

1-(2-Formylbenzyl)benzimidazolin-2-one (7). Yield: 39 %: mp 153 - 154 $^\circ\text{C}$ (CH_2Cl_2 - *n*-hexane), ^1H NMR δ 5.62 (s, 2H), 6.77 - 7.95 (m, 8H), 9.56 (s, 1H, NH), 10.23 (s, 1H, CHO); IR (neat) 3380 (NH), 2840, 2730, 1687 (br) cm^{-1} ; MS (m/z) 252 (M^+). Anal. Calcd for $\text{C}_{15}\text{H}_{12}\text{N}_2\text{O}_2$: C, 71.42; H, 4.79; N, 11.10. Found: C, 71.38; H, 4.75; N, 11.09.