Supporting Information

One-Pot Synthesis of Amides from Aldehydes and Amines via C-H Bond Activation

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Experimental Procedures

General Information.
All reagents and solvents were as obtained by commercial source. All conventional reactions were run under dry nitrogen using standard techniques unless otherwise stated. All solvents were dried by usual methods and distilled under argon. Column chromatography was generally performed on silica gel (pore size 60 Å, 40-63 µm particle size) and reactions were monitored by thin-layer chromatography (TLC) analysis was performed with Merck Kieselgel 60 F254 plates and visualized using UV light at 254 nm and KMnO₄ staining. ¹H NMR and ¹³C NMR were recorded on a Varian NMR spectrometer VXR-300, at 300 and 75.4 MHz using CDCl₃ solutions and TMS as an internal standard. Chemical shifts are reported in parts per million (ppm, δ) relative to tetramethylsilane (TMS, δ 0.00) or relative to residual solvent signals (CDCl₃, δ 7.27 ppm δ 2.54). Coupling constants (J values) are given in Hz, and peak multiplicities are denoted by s (singlet), br s (broad singlet), d (doublet), dd (doublet of doublets), m (multiplet), q (quartet), and t (triplet). The IR spectra were recorded on a Jasco FTIR-480 Plus Fourier Transform spectrometer. Elemental analyses were measured on a Perkin-Elmer Elemental Analyzer 2400-CHN. Melting points were determined in open capillary tubes and are uncorrected.

General procedures for amides 4a-q: An amine (0.5 mmol) was added to a solution of N-chlorosuccinimide (0.55 mmol) in 7 mL of acetonitrile under N₂ atmosphere and at room temperature. After 3 hour were added an aldehyde (2.5 mmol), TBHP (2.5 mmol, 0.34 mL of a 70 wt% in water) and Cu(OAc)₂·H₂O (0.068 mmol) under N₂ atmosphere. The reaction mixture was heated in an oil bath at 82°C for 50 min (the reaction was monitored by TLC until disappearance of N-chloroamine). Then the reaction mixture was quenched with 40 mL of a saturated solution of Na₂SO₃ (for removal of excess TBHP) and extracted three times with 20 mL of diethyl ether. The combined organic phases were dried over anhydrous Na₂SO₄ and the solvent was evaporated under reduced pressure. The crude product was purified by silica gel column chromatography to provide the desired amide.
Compound characterizations

\[ \text{N,N-Dibenzylheptanamide (4a)} \]

Purified by column chromatography (ethyl acetate : petroleum ether = 0.4:4.6). \( R_f = 0.47. \)
Coloress oil. \(^1\)H NMR (300 MHz, CDCl\(_3\)) \( \delta : 7.40-7.15 \text{ (m, 10H)}, 4.60 \text{ (s, 2H)}, 4.44 \text{ (s, 2H)}, 2.42 \text{ (t, } J = 7.53 \text{ Hz, 2H)}, 1.77-1.67 \text{ (m, 6H)}, 0.87 \text{ (t, } J = 7.23 \text{ Hz, 3H}). \(^1\)\(^3\)C NMR (75 MHz, CDCl\(_3\)) \( \delta : 173.7; 137.5; 136.7; 128.9; 128.5; 128.2; 127.5; 127.2; 126.3; 49.8; 48.0; 33.2; 31.5; 29.0; 25.3; 22.4; 14.0. \) IR (film): \( \tilde{\nu} = 2928 \text{ (m)}, 1644 \text{ (s), 1494 (w), 1453 (m), 1265 (m), 1206 (w), 1078, (w) 736 (s), 699 (m). \)
Anal. Calcd for C\(_{21}\)H\(_{27}\)NO (309.44) C, 81.51; H, 8.79; N, 4.53. Found: C, 81.45; H, 8.83; N, 4.48.

\[ \text{1-Morpholinoheptan-1-one (4b)} \]

Purified by column chromatography (ethyl acetate : petroleum ether = 1:1). \( R_f = 0.40. \)
Pale yellow oil. \(^1\)H NMR (300 MHz, CDCl\(_3\)) \( \delta : 3.69-3.47 \text{ (m, 6H)}; 3.47 \text{ (t, } J = 5.11 \text{ Hz, 2H}); 2.32 \text{ (t, } J = 7.89 \text{ Hz, 2H}); 1.64-1.57 \text{ (m, 2H)}; 1.33-1.27 \text{ (m, 6H)}; 0.89 \text{ (t, } J = 7.01 \text{ Hz, 3H}). \(^1\)\(^3\)C NMR (75 MHz, CDCl\(_3\)) \( \delta : 171.9; 66.9; 66.6; 46.0; 41.9; 33.1; 31.5; 29.1; 25.2; 22.4; 13.9. \) IR (film): \( \tilde{\nu} = 2928 \text{ (m)}, 2858 \text{ (m), 2637 (m), 1637 (s), 1457 (s), 1435 (m), 1266 (s), 1115 (s), 1069 (w), 1039 (w), 910 (m), 850 (w), 736 (s), 702 (w), 665 (w). \)
Anal. Calcd for C\(_{11}\)H\(_{21}\)NO\(_2\) (199.29) C, 66.29; H, 10.62; N, 7.03. Found: C, 66.23; H, 10.69; N, 6.98.

\[ \text{N-benzyl-N-isopropyl-2,2-dimethylpropanamide (4c)} \]

Purified by column chromatography (ethyl acetate : petroleum ether = 0.8:4.2). \( R_f = 0.33. \)
Pale yellow oil. \(^1\)H NMR (300 MHz, CDCl\(_3\)) \( \delta : 7.41-7.21 \text{ (m, 5H)}, 5.43 \text{ (s, 1H)}, 4.67 \text{ (s, 1H)}, 4.10-3.99 \text{ (m, 1H)}, 1.24-1.11 \text{ (m, 15H)}. \(^1\)\(^3\)C NMR (75 MHz, CDCl\(_3\)) \( \delta : 177.8; 129.4; 128.6; 127.2; 126.4; 41.3;
N-benzyl-N,3,3-trimethylbutanamide (4d)

Purified by column chromatography (ethyl acetate : petroleum ether = 0.5:4.5). Rf = 0.40. Pale yellow oil. $^1$H NMR (300 MHz, CDCl$_3$) $\delta$: 7.39-7.14 (m, 5H), 4.59 (d, $J = 11.43$ Hz, 2H), 2.94 (s, 3H), 2.32 (s, 2H), 1.09 (s, 5H), 1.07 (s, 4H). $^{13}$C NMR (75 MHz, CDCl$_3$) $\delta$: 172.4; 172.0; 137.8; 136.9; 128.9; 128.5; 128.1; 127.5; 127.2; 126.3; 54.0; 50.7; 44.9; 44.7; 35.9; 33.8; 31.6; 31.4; 30.04; 30.00. IR (film): $\nu$ = 3063 (w), 3029 (w), 2953 (s), 2866 (m), 1645 (s), 1477 (m), 1453 (m), 1387 (m), 1363 (m), 1285 (m), 1233 (w), 1192 (w), 1106 (s), 1028 (w), 1001 (w), 953 (w), 735 (w). Anal. Calcd for C$_{15}$H$_{23}$NO (233.35) C, 77.21; H, 9.93; N, 6.00. Found: C, 77.23; H, 9.88; N, 6.04.

[Image of N-benzyl-N,3,3-trimethylbutanamide (4d)]

morpholino(phenyl)methanone (4e)

Purified by column chromatography (diethyl ether: petroleum ether = 4:1). Rf = 0.37. White solid, m.p. = 48-50°C. $^1$H NMR (300 MHz, CDCl$_3$) $\delta$: 7.41-7.34 (m, 5H), 3.79-3.42 (br m, 8H). $^{13}$C NMR (75 MHz, CDCl$_3$) $\delta$: 170.3; 135.3; 129.8; 128.5; 127.0; 66.8; 42.3. IR (film): $\nu$ = 3058 (m), 2973 (m), 2923 (m), 1613 (s), 1496 (m), 1432 (s), 1365 (w), 1301 (m), 1278 (s), 1259 (s), 1365 (w), 1301 (m), 1278 (s), 1259 (s), 1157 (w), 1114 (s), 1068 (m), 1018 (s), 933 (m), 890 (m), 842 (m), 788 (m), 734 (s) 646 (w). Anal. Calcd for C$_{11}$H$_{13}$NO$_2$ (191.23) C, 69.09; H, 6.85; N, 7.32. Found: C, 69.01; H, 6.88; N, 7.36.

[Image of morpholino(phenyl)methanone (4e)]

$N,N$-Dibenzylbenzamide (4f)

Purified by column chromatography (ethyl acetate : petroleum ether = 0.4:4.6). Rf = 0.24. White solid, m.p. = 114-115°C. $^1$H NMR (300 MHz, CDCl$_3$) $\delta$: 7.51-7.48 (m, 2H), 7.37-7.28 (m, 11H), 7.14-7.12 (br s, 2H), 4.70 (s, 2H), 4.40 (s, 2H). $^{13}$C NMR (75 MHz, CDCl$_3$) $\delta$: 172.2; 136.2; 129.5; 128.7; 128.4; 127.5; 126.9; 126.6; 51.4; 46.8. IR (film): $\nu$ = 3061 (m), 3029 (m), 2923 (m), 1634

[Image of $N,N$-Dibenzylbenzamide (4f)]
Anal. Calcd for C_{21}H_{19}NO (301.38) C, 83.69; H, 6.35; N, 4.65. Found C, 83.67; H, 6.39; N, 4.72.

N,N-dibenzyl-4-methoxybenzamide (4g)

Purified by column chromatography (ethyl acetate : petroleum ether = 1:4). R_{f} = 0.29. White solid, m.p. = 120-122°C. \(^1\)HNMR (300 MHz, CDCl\(_3\)) \(\delta\): 7.48 (d, \(J = 8.50\) Hz, 2H), 7.38-7.20 (m, 10H), 6.88 (d, \(J = 8.81\) Hz, 2H), 4.67 (br s, 2H), 4.48 (br s, 2H), 3.80 (s, 3H). \(^1\)\(^3\)C NMR (75 MHz, CDCl\(_3\)) \(\delta\): 172.1; 160.7; 136.9; 128.7; 128.5; 128.2; 127.5; 127.0; 113.8; 55.0; 50.9; 47.1. \(^4\)IR (film): \(\nu =\) 3062 (w), 2923 (s), 2852 (m), 1631 (s), 1513 (m), 1494 (m), 1452 (s), 1421 (s), 1363 (w), 1301 (m), 1249 (s), 1174 (m), 1143 (w), 1078 (m), 1031 (m), 993 (m), 923 (w), 840 (s), 734 (s), 700 (s). Anal. Calcd for C\(_{22}\)H\(_{21}\)NO\(_2\) (331.41) C, 79.73; H, 6.39; N, 4.23. Found C, 79.67; H, 6.35; N, 4.19.

N-cyclohexyl-N,2-dimethylbenzamide (4h)

Purified by column chromatography (ethyl acetate : petroleum ether = 1:4). R_{f} = 0.37. White solid, m.p. = 49-51°C. \(^1\)HNMR (300 MHz, CDCl\(_3\)) \(\delta\): 7.24-7.12 (m, 4H), 4.67-4.58 (m, 0.5H), 3.26-3.15 (m, 0.5H), 2.99 (s, 1.5H), 2.64 (s, 1.5H), 2.27 (d, \(J = 1.84\) Hz, 3H), 1.78-0.99 (m, 10H). \(^1\)\(^3\)C NMR (75 MHz, CDCl\(_3\)) \(\delta\): 171.3; 171.0; 137.7; 137.2; 133.9; 133.5; 130.3; 130.2; 128.4; 125.9; 125.7; 125.1; 58.1; 52.0; 31.2; 30.6; 29.8; 26.8; 25.6; 25.1; 19.0; 18.6. IR (film): \(\nu =\) 2928 (s), 2855 (m), 1632 (s), 1492 (w), 1449 (m), 1403 (m), 1403 (m), 1367 (w), 1322 (m), 1258 (w), 1186 (w), 1137 (w), 1113 (w), 1061 (m), 1040 (w), 997 (w), 894 (w), 770 (m), 728 (m), 656 (w), 640 (w), 617 (w). Anal. Calcd for C\(_{15}\)H\(_{21}\)NO (231.33) C, 77.88; H, 9.15; N, 6.05. Found C, 77.89; H, 9.11; N, 6.09.

N-(4-Chlorobenzoyl)piperidine (4i)

Purified by column chromatography (ethyl acetate : petroleum ether =0.5:4.5). R_{f} = 0.32. Pale yellow oil. \(^1\)HNMR (300 MHz, CDCl\(_3\)) \(\delta\): 7.39-7.32 (m, 4H), 3.68 (s, 2H), 3.33 (s, 2H), 1.67-1.53 (m, 6H). \(^1\)\(^3\)C NMR (75 MHz, CDCl\(_3\)) \(\delta\): 169.0; 135.2; 134.7; 128.5; 128.2; 48.6; 43.2; 29.5; 25.6;
24.4.5 IR (film): $\tilde{\nu} = 2936$ (s), 2855 (s), 1630 (s), 1439 (s), 1276 (s), 1088 (m), 1016 (m), 1001 (m), 885 (m), 838 (m). Anal. Calcd for $C_{12}H_{14}ClNO$ (223.70) C, 64.43; H, 6.31; N, 6.26. Found: C, 64.39; H, 6.35; N, 6.29.

N-(4-Nitrobenzoyl)piperidine (4j)

Purified by column chromatography (ethyl acetate : petroleum ether = 2:3). $R_f = 0.32$. White solid, m.p. 119-120°C. $^1H$ NMR (300 MHz, CDCl$_3$) $\delta$: 8.26 (d, $J = 8.63$ Hz, 2H), 7.54 (d, $J = 7.53$ Hz, 2H), 3.72 (s, 2H), 3.28 (s, 2H), 1.70 (s, 4H), 1.52 (s, 2H). $^{13}C$ NMR (75 MHz, CDCl$_3$) $\delta$: 168.1; 148.2; 142.7; 127.8; 123.8; 48.6; 43.2; 26.5; 25.5; 24.4. IR (film): $\tilde{\nu} = 3055$ (w), 2924 (m), 2857 (m), 1633 (s), 1600 (m), 1523 (s), 1444 (s), 1351 (s), 1276 (s), 1106 (m), 1001 (m), 888 (w), 862 (m), 850 (m), 826 (w), 736 (s). Anal. Calcd for $C_{12}H_{14}N_2O_3$ (234.25) C, 61.53; H, 6.02; N, 11.96. Found: C, 61.48; H, 6.07; N, 11.89.

Methyl 4-(morpholine-4-carbonyl)benzoate (4k)

Purified by column chromatography (ethyl acetate : petroleum ether = 3.5:1.5). $R_f = 0.36$. White solid, m.p. 73-75°C. $^1H$ NMR (300 MHz, CDCl$_3$) $\delta$: 8.09 (d, $J = 8.14$ Hz, 2H), 7.48 (d, $J = 8.15$ Hz, 2H), 3.94 (s, 3H), 3.79-3.93 (m, 8H). $^{13}C$ NMR (75 MHz, CDCl$_3$) $\delta$: 169.3; 166.1; 139.5; 131.3; 129.8; 127.0; 66.7; 52.2; 42.4. IR (film): $\tilde{\nu} = 2955$ (w), 2856 (w), 1720 (s), 1633 (s), 1507 (m), 1433 (s), 1362 (w), 1278 (s), 1180 (m), 1156 (w), 1114 (s), 1067 (m), 1014 (m), 962 (w), 895 (m), 895 (w), 842 (w), 824 (w), 785 (m), 726 (m). Anal. Calcd for $C_{13}H_{15}NO_4$ (249.26) C, 62.64; H, 6.07; N, 5.62. Found: C, 62.61; H, 6.11; N, 5.58.

1-(4-(Morpholine-4-carbonyl)phenyl)ethanone (4l)

Purified by column chromatography (ethyl acetate : petroleum ether = 4:1). $R_f = 0.38$. White solid, m.p. 96-98°C. $^1H$ NMR (300 MHz, CDCl$_3$) $\delta$: 8.01 (d, $J = 8.52$ Hz, 2H), 7.50 (d, $J = 8.51$ Hz, 2H), 3.79-3.41 (m, 8H). $^{13}C$ NMR (75 MHz, CDCl$_3$) $\delta$: 197.4; 169.5; 139.9; 138.2; 127.5; 67.0; 29.9; 26.9. IR (film): $\tilde{\nu} = 2922$ (m), 2854 (m), 1716 (m), 1685 (s), 1532 (s), 1507 (w), 1433 (m), 1362 (w), 1278 (s), 1180 (m), 1156 (w), 1114 (s), 1067 (m), 1014 (m), 962 (w), 895 (m), 895 (w), 842 (w), 824 (w), 785 (m), 726 (m). Anal. Calcd for $C_{13}H_{15}NO_4$ (249.26) C, 62.64; H, 6.07; N, 5.62. Found: C, 62.61; H, 6.11; N, 5.58.
1458 (m), 1432 (w), 1360 (m), 1262 (s), 1157 (w), 1114 (s), 1068 (w), 1024 (m), 1011 (m), 959 (w), 913 (m), 838 (m), 732 (s), 647 (w). Anal. Calcd for C\textsubscript{13}H\textsubscript{15}NO\textsubscript{3} (233.26) C, 66.94; H, 6.48; N, 6.00. Found: C, 66.91; H, 6.43; N, 6.04.

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\text{N,N-Dibenzylthiophene-2-carboxamide (4m)}
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Purified by column chromatography (ethyl acetate : petroleum ether = 0.5:4.5). R\textsubscript{f} = 0.30. White solid, m.p. 48-50°C. \textsuperscript{1}H NMR (300 MHz, CDCl\textsubscript{3}) \(\delta\): 7.45 (d, \(J\) = 5.04 Hz, 1H), 7.38-7.26 (m, 11H), 6.95 (t, \(J\) = 3.70 Hz, 1H), 4.72 (s, 4H).\textsuperscript{13}C NMR (75 MHz, CDCl\textsubscript{3}) \(\delta\): 165.0; 137.7; 136.6; 129.3; 128.8; 128.6; 127.6; 126.9; 50.1.\textsuperscript{2}IR (film): \(\bar{\nu}\)=3029 (m), 2921 (m), 1616 (s), 1521 (m), 1494 (m), 1452 (m), 1428 (s), 1363 (m), 1253 (s), 1203 (w), 1076 (w), 1027 (w), 975 (m), 910 (w), 854 (m), 734 (s), 698 (s).\textsuperscript{3} Anal. Calcd for C\textsubscript{19}H\textsubscript{17}NOS (307.41) C, 74.23; H, 5.57; N, 4.56. Found: C, 74.26; H, 5.54; N, 4.59.

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\text{N-Phenethylbenzamide (4n)}
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Purified by column chromatography (ethyl acetate : petroleum ether = 1.5:3.5). R\textsubscript{f} = 0.43. White solid, m.p. 114-115°C.\textsuperscript{5}H NMR (300 MHz, CDCl\textsubscript{3}) \(\delta\): 7.68 (d, \(J\) = 6.85 Hz, 2H), 7.49-7.30 (m, 5H), 7.26-7.22 (m, 3H), 6.20 (br s, 1H), 3.71 (q, \(J\) = 5.96 Hz, 2H), 2.93 (t, \(J\) = 6.88 Hz, 2H).\textsuperscript{10}\textsuperscript{13}C NMR (75 MHz, CDCl\textsubscript{3}) \(\delta\): 167.4; 138.9; 134.7; 131.3; 128.8; 128.7; 128.5; 126.8; 126.6; 41.1; 35.7.\textsuperscript{8} IR (film): \(\bar{\nu}\)=3343 (s), 3054 (m), 1640 (s), 1545 (m), 1485 (w), 1455 (w), 1265 (s), 1193 (w), 739 (s), 699 (m), 665 (m). Anal. Calcd for C\textsubscript{15}H\textsubscript{15}NO (225.29) C, 79.97; H, 6.71; N, 6.22. Found: C, 79.91; H, 6.63; N, 6.25.

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\text{N-heptyl-2-methylbenzamide (4o)}
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Purified by column chromatography (ethyl acetate : petroleum ether = 0.5:4.5). R\textsubscript{f} = 0.30. Pale yellow oil.\textsuperscript{1}H NMR (300 MHz, CDCl\textsubscript{3}) \(\delta\): 7.31-7.13 (m, 4H), 5.94 (br s, 1H), 3.38 (q, \(J\) = 6.88 Hz, 2H), 2.41 (s, 3H), 1.62-1.52 (m, 2H), 1.34-1.29 (m, 8H), 0.91-0.86 (m, 3H).\textsuperscript{13}C NMR (75 MHz, CDCl\textsubscript{3}) \(\delta\): 170.0; 136.8; 135.8; 130.8; 129.5; 126.5; 125.5; 39.7; 31.7; 29.6; 28.9; 26.8; 22.5; 19.6; 13.9. IR (film): \(\bar{\nu}\)= 2958 (w), 2927 (m), 2856 (m), 1639 (s), 1540 (m), 1485 (w), 1456 (w), 1377
Anal. Calcd for C_{15}H_{23}NO (233.35) C, 77.21; H, 9.93; N, 6.00. Found: C, 77.25; H, 9.89; N, 5.94.

N-buty1-2-methylbenzamide (4p)

Purified by column chromatography (ethyl acetate : petroleum ether = 1:4). R_{f} = 0.35. Pale yellow oil. \(^1\)H NMR (300 MHz, CDCl\(_3\)): \(\delta\): 7.31-7.14 (m, 4H), 5.92 (br s, 1H), 3.39 (q, \(J = 7.01\) Hz, 2H), 2.4 (s, 3H), 1.59-1.54 (m, 2H), 1.41-1.38 (m, 2H), 0.95 (t, \(J = 7.27\) Hz, 3H). \(^{13}\)C NMR (75 MHz, CDCl\(_3\)): \(\delta\): 170.3; 137.0; 136.0; 131.1; 129.8; 126.8; 125.8; 39.7; 31.9; 20.3; 19.9; 13.9. IR (film): \(\nu\approx 3052\) (m), 2960(s), 2930 (s), 2873 (m), 1643 (s), 1601 (w), 1537 (s), 1485 (m), 1456 (m), 1379 (w), 1307 (m), 1265 (s), 1158 (w), 1109 (w), 1007 (w), 856 (w), 739 (s), 703 (m), 658 (w). Anal. Calcd for C\(_{12}\)H\(_{17}\)NO (191.27) C, 75.35; H, 8.96; N, 7.32. Found: C, 75.31; H, 8.92; N, 7.38.

3,5-dimethoxy-N-pentylbenzamide (4q)

Purified by column chromatography (ethyl acetate : petroleum ether = 1:4). R_{f} = 0.38. Pale yellow oil. \(^1\)H NMR (300 MHz, CDCl\(_3\)): \(\delta\): 6.87 (d, \(J = 2.29\) Hz, 2H), 6.56 (t, \(J = 2.28\) Hz, 1H), 6.13 (br s, 1H), 3.81 (s, 6H), 3.45-3.39 (m, 2H), 1.62-1.55 (m, 2H), 1.37-1.32 (m, 4H), 0.90 (t, \(J = 7.25\) Hz, 3H). \(^{13}\)C NMR (75 MHz, CDCl\(_3\)): \(\delta\): 167.5; 161.1; 137.4; 105.0; 103.5; 55.7; 40.3; 29.5; 29.3; 22.6; 14.2. IR (film): \(\nu\approx 2957\) (m), 2930 (m), 2857 (m), 1639 (m), 1593 (s), 1541 (m), 1457 (m), 1426 (m), 1348 (m), 1266 (w), 1206 (s), 1157 (s), 1065 (m), 926 (w), 842 (w), 738 (m), 702 (w). Anal. Calcd for C\(_{14}\)H\(_{21}\)NO\(_3\) (251.32) C, 66.91; H, 8.42; N, 5.57. Found: C, 66.87; H, 8.39; N, 5.62.

2,2,6,6-tetramethylpiperidin-1-yl benzoate

Purified by column chromatography (diethyl ether : petroleum ether = 1:6). R_{f} = 0.3. Colorless oil. \(^1\)H NMR (300 MHz, CDCl\(_3\)): \(\delta\): 8.08 (d, \(J = 7.11\) Hz, 2H), 7.57 (t, \(J = 7.93\) Hz, 1H), 7.46 (t, \(J = 7.32\) Hz, 2H) 1.78-1.60 (m, 6H), 1.28 (s, 6H), 1.12 (s, 6H). \(^{13}\)C NMR (75 MHz, CDCl\(_3\)): \(\delta\): 166.3; 132.8; 129.5; 128.4; 60.4; 39.1; 31.9; 20.8; 16.9. IR (film): \(\nu\approx 3062\) (m), 2975 (m), 2938 (m), 1745 (s), 1601 (w), 1451 (m), 1379 (m), 1364 (m), 1348 (w), 1313 (w), 1257 (s), 1238 (m), 1176
(m), 1082 (s), 1063 (s), 994 (m), 953 (m), 911 (m), 875 (w), 737 (s), 706 (s), 650 (w). \textsuperscript{10} Anal. Calcd for C\textsubscript{16}H\textsubscript{23}NO\textsubscript{2} (261.36) C, 73.53; H, 8.87; N, 5.36. Found: C, 73.46; H, 8.79; N, 5.31.
References

2,2,6,6-tetramethylpiperidin-1-yl benzoate
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