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2-Hydroxyphenylethyl sulfide (3). colorless oil (0.41 g, 67%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.48 (dd, 1 H, J = 7.6 Hz and 1.7 Hz, ArH), 7.23-7.28 (m, 1 H, ArH), 6.90-7.00 (dd, 1 H, J = 8.1 Hz and 1.3 Hz, ArH), 6.84-6.89 (t, 1 H, J = 7.6 Hz and 1.4 Hz, ArH), 6.70 (s, 1 H, OH), 2.67-2.75 (q, 2 H, J = 7.3 Hz, CH_2), 1.19-1.24 (t, 3 H, J = 7.3 Hz, CH_3).

2-Hydroxyphenylpropyl sulfide (4). colorless oil (0.51 g, 77%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.7 Hz and 1.7 Hz, ArH), 7.22-7.26 (m, 1 H, ArH), 6.96-6.99 (dd, 1 H, J = 7.1 Hz and 1.1 Hz, ArH), 6.83-6.89 (t, 1 H, J = 7.6 Hz and 1.3 Hz, ArH), 6.76 (s, 1 H, OH), 2.64-2.69 (t, 2 H, J = 7.5 Hz, CH_2), 1.55-1.61 (m, 2 H, CH_2), 0.95-1.00 (t, 3 H, J = 7.4 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 156.93, 135.97, 130.94, 120.64, 119.09, 114.63, 38.75, 22.95, 13.16; FAB-MS 169 (MH^+, 25), 168 (M^+, 60), 93 (22), 79 (100).

2-Hydroxyphenylbutyl sulfide (5). colorless oil (0.6 g, 78%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.7 Hz and 1.6 Hz, ArH), 7.21-7.25 (m, 1 H, ArH), 6.96-6.99 (dd, 1 H, J = 8.1 Hz and 1.1 Hz, ArH), 6.83-6.88 (t, 1 H, J = 7.6 Hz and 1.3 Hz, ArH), 6.74 (s, 1 H, OH), 2.58-2.60 (dd, 2 H, J = 6.8 Hz, CH_2), 1.71-1.78 (m, 1 H, CH), 0.99-1.01 (t, 3 H, J = 6.6 Hz, CH_3).

2-Hydroxyphenylpentyl sulfide (6). colorless oil (0.7 g, 90%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.7 Hz and 1.7 Hz, ArH), 7.22-7.28 (m, 1 H, ArH), 6.96-6.99 (dd, 1 H, J = 8.1 Hz and 1.2 Hz, ArH), 6.83-6.89 (t, 1 H, J = 7.4 Hz and 1.1 Hz, ArH), 6.75 (s, 1 H, OH), 2.65-2.70 (t, 2 H, J = 7.4 Hz, CH_2), 1.50-1.58 (m, 2 H, CH_2), 1.25-1.37 (m, 4 H, CH_2), 0.84-0.91 (t, 3 H, J = 7.1 Hz, CH_3).

2-Hydroxyphenylhexyl sulfide (7). colorless oil (0.42 g, 84%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.6 Hz and 1.6 Hz, ArH), 7.22-7.28 (m, 1 H, ArH), 6.96-6.99 (dd, 1 H, J = 8.2 Hz and 1.3 Hz, ArH), 6.83-6.89 (t, 1 H, J = 7.6 Hz and 1.4 Hz, ArH), 6.75 (s, 1 H, OH), 2.65-2.70 (t, 2 H, J = 7.30 Hz, CH_2), 1.50-1.59 (m, 2 H, CH_2), 1.22-1.41 (m, 6 H, CH_2), 0.84-0.89 (t, 3 H, J = 6.9 Hz, CH_3).

2-Hydroxyphenylheptyl sulfide (8). colorless oil (0.59 g, 67%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.6 Hz and 1.6 Hz, ArH), 7.22-7.28 (m, 1 H, ArH), 6.96-6.99 (dd, 1 H, J = 8.1 Hz and 1.2 Hz, ArH), 6.83-6.89 (t, 1 H, J = 7.6 Hz and 1.3 Hz, ArH), 6.75 (s, 1 H, OH), 2.65-2.70 (t, 2 H, J = 7.3 Hz, CH_2), 1.50-1.59 (m, 2 H, CH_2), 1.25-1.35 (m, 8 H, CH_2), 0.84-0.88 (t, 3 H, J = 7.0 Hz, CH_3).

2-Hydroxyphenyloctyl sulfide (9). colorless oil (0.58 g, 77%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.7 Hz and 1.6 Hz, ArH), 7.22-7.28 (m, 1 H, ArH), 6.96-6.99 (dd, 1 H, J = 8.2 Hz and 1.1 Hz, ArH), 6.83-6.89 (t, 1 H, J = 7.6 Hz and 1.3 Hz, ArH), 6.75 (s, 1 H, OH), 2.65-2.70 (t, 2 H, J = 7.3 Hz, CH_2), 1.50-1.59 (m, 2 H, CH_2), 1.24-1.38 (m, 10 H, CH_2), 0.84-0.88 (t, 3 H, J = 6.9 Hz, CH_3).

2-Hydroxyphenylnonyl sulfide (10). colorless oil (0.59 g, 59%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.6 Hz and 1.6 Hz, ArH), 7.23-7.26 (m, 1 H, ArH), 6.97-6.99 (dd, 1 H, J = 8.1 Hz and 1.2 Hz, ArH), 6.84-6.88 (t, 1 H, J = 7.5 Hz and 1.2 Hz, ArH), 6.75 (s, 1 H, OH), 2.66-2.70 (t, 2 H, J = 7.3 Hz, CH_2), 1.54-1.56 (m, 2 H, CH_2), 1.33-1.37 (m, 2 H, CH_2), 1.24-1.28 (m, 10 H, CH_2), 0.85-0.89 (t, 3 H, J = 7.0 Hz, CH_3).

2-Hydroxyphenylcyclohexyl sulfide (11). colorless oil (0.54 g, 66%). ^{1}H NMR ($CDCl_3$) δ 7.42-7.48 (dd, 1 H, J = 7.6 Hz and 1.5 Hz, ArH), 7.24-7.29 (m, 1 H, ArH), 6.97-7.03 (dd, 1 H, J = 7.1 Hz and 1.1 Hz, ArH), 6.80-7.00 (m, 2 H, ArH and OH), 2.75-2.85 (m, 1 H, CH), 1.90-1.94 (m, 2 H, CH_2), 1.74-1.77 (m, 2 H, CH_2), 1.15-1.68 (m, 6 H, CH_2).

2-Hydroxyphenylcycloheptyl sulfide (12). colorless oil (0.59 g, 69%). ^{1}H NMR ($CDCl_3$) δ 7.43-7.45 (d, 1 H, J = 7.6 Hz, ArH), 7.24-7.29 (m, 1 H, ArH), 6.97-7.00 (d, 1 H, J = 8.1 Hz, ArH), 6.83-6.88 (m, 2 H, ArH and OH), 2.97-3.05 (m, 1 H, CH), 1.40-2.27 (m, 12 H, CH_2).

2-Hydroxyphenylbenzyl sulfide (13). colorless oil (0.36 g, 68%). ^{1}H NMR ($CDCl_3$) δ 7.21-7.27 (m, 5 H, ArH), 7.06-7.09 (m, 2 H, ArH), 6.90-6.93 (dd, 1 H, J = 7.8

Hz and 1.0 Hz, ArH), 6.77-6.82 (t, 1 H, J = 7.6 Hz and 1.4 Hz, ArH), 6.52 (s, 1 H, OH), 3.84 (s, 3 H, CH_2).

2-Hydroxyphenyl-2-phenethyl sulfide (14). colorless oil (0.7 g, 78%). ^{1}H NMR ($CDCl_3$) δ 7.46-7.49 (dd, 1 H, ArH), 7.27-7.30 (m, 4 H, ArH), 7.13-7.15 (d, 2 H, ArH), 6.98-7.01 (d, 1 H, ArH), 6.88-6.90 (t, 1 H, ArH), 6.64 (s, 1 H, OH), 2.94-2.98 (m, 2 H, CH_2), 2.82-2.86 (t, 2 H, CH_2).

2-Hydroxyphenyl-3-phenylpropyl sulfide (15). colorless oil (0.61 g, 79%). ^{1}H NMR ($CDCl_3$) δ 7.43-7.46 (dd, 1H, J = 7.6 Hz and 1.5 Hz, ArH), 7.12-7.29 (m, 6 H, ArH), 6.97-6.99 (d, 1 H, J = 8.0 Hz, ArH), 6.83-6.88 (t, 1 H, J = 7.7 Hz and 1.0 Hz, ArH), 6.72 (s, 1 H, OH), 2.67-2.72 (m, 4 H, CH_2), 1.82-1.92 (m, 2 H, CH_2).

2-Hydroxyphenyl-3-phenoxypropyl sulfide (16). colorless oil (0.63 g, 72%). ^{1}H NMR ($CDCl_3$) δ 7.46-7.48 (d, 1 H, J = 7.7 Hz, ArH), 7.24-7.29 (m, 3 H, ArH), 6.84-6.98 (m, 5 H, ArH), 4.01-4.05 (t, 2 H, J = 6.0 Hz, CH_2), 2.88-2.92 (t, 2 H, J = 7.3 Hz, CH_2), 1.99-2.06 (m, 2 H, CH_2).

2-Hydroxyphenyl-6-bromohexyl sulfide (18). pale yellow oil (77 mg, 23%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.47 (dd, 1 H, J = 7.7 Hz and 1.6 Hz, ArH), 7.23-7.30 (m, 1 H, ArH), 6.97-7.01 (dd, 1 H, J = 8.2 Hz and 1.3 Hz, ArH), 6.85-6.90 (m, 1 H, ArH), 6.74 (s, 1 H, OH), 3.14-3.19 (t, 2 H, J = 6.9 Hz, CH_2), 2.66-2.71 (t, 2 H, J = 7.4 Hz, CH_2), 1.77-1.84 (m, 2 H, CH_2), 1.54-1.59 (m, 2 H, CH_2), 1.36-1.47 (m, 4 H, CH_2); ^{13}C NMR ($CDCl_3$) δ 156.88, 135.91, 131.01, 120.69, 118.86, 114.69, 36.55, 33.70, 32.48, 29.38, 27.63, 27.59.

2-Hydroxyphenyl-5-bromopentyl sulfide (19). pale yellow oil (75 mg, 23%). ^{1}H NMR ($CDCl_3$) δ 7.44-7.48 (dd, 1 H, J = 7.7 Hz and 1.6 Hz, ArH), 7.24-7.30 (m, 1 H, ArH), 6.97-7.01 (dd, 1 H, J = 8.2 Hz and 1.3 Hz, ArH), 6.85-6.90 (m, 1 H, ArH), 6.73 (s, 1 H, OH), 3.36-3.40 (t, 2 H, J = 6.7 Hz, CH_2), 2.67-2.72 (t, 2 H, J = 7.1 Hz, CH_2), 1.79-1.89 (m, 2 H, CH_2), 1.51-1.60 (m, 4 H, CH_2).

2-Hydroxyphenyl-4-(carboxybutyl) sulfide (21). white solid (0.98 g, 55%). mp = 52-54 °C. ^{1}H NMR ($CDCl_3$) δ 7.45-7.47 (dd, 1 H, *J* = 7.7 Hz and 1.5 Hz, ArH), 7.25-7.29 (m, 1 H, ArH), 6.96-6.99 (dd, 1 H, *J* = 8.1 Hz and 1.0 Hz, ArH), 6.86-6.90 (t, 1 H, *J* = 7.5 Hz and 1.0 Hz, ArH), 6.77 (s, 1 H, OH), 2.68-2.72 (t, 2 H, *J* = 7.2 Hz, CH_2), 2.34-2.37 (t, 2 H, *J* = 7.3 Hz, CH_2), 1.71-1.77 (m, 2 H, CH_2), 1.56-1.69 (m, 2 H, CH_2).

2-Hydroxyphenyl-2-butoxyethyl sulfide (25). colorless oil (61 mg, 34%). ^{1}H NMR ($CDCl_3$) δ 7.46-7.49 (dd, 1 H, *J* = 7.6 Hz and 1.6 Hz, ArH), 7.24-7.29 (m, 1 H, ArH), 7.41 (s, 1 H, OH), 6.96-6.99 (dd, 1 H, *J* = 8.2 Hz and 1.2 Hz, ArH), 6.81-6.87 (t, 1 H, *J* = 7.6 Hz and 1.3 Hz, ArH), 3.45-3.50 (m, 4 H, CH_2), 2.86-2.90 (t, 2 H, *J* = 5.9 Hz, CH_2), 1.52-1.63 (m, 2 H, CH_2), 1.33-1.45 (m, 2 H, CH_2), 0.88-0.96 (t, 3 H, *J* = 7.3 Hz, CH_3).

2-Hydroxyphenyl-3-ethoxypropyl sulfide (26). colorless oil (0.17 g, 67%). ^{1}H NMR ($CDCl_3$) δ 7.45-7.47 (dd, 1 H, *J* = 7.7 Hz and 1.5 Hz, ArH), 7.23-7.28 (m, 1 H, ArH), 6.97-6.99 (dd, 1 H, *J* = 8.1 Hz and 1.2 Hz, ArH), 6.84-6.89 (s and d of t, 2 H, *J* = 7.5 Hz and 1.2 Hz, OH and ArH), 3.43-3.51 (m, 4 H, CH_2), 2.77-2.81 (t, 2 H, *J* = 7.6 Hz, CH_2), 1.77-1.84 (m, 2 H, CH_2), 1.17-1.20 (t, 3 H, *J* = 7.0 Hz, CH_3).

2-Hydroxyphenyl-*trans*-hept-2-enyl sulfide (27). colorless oil (78 mg, 54%). ^{1}H NMR ($CDCl_3$) δ 7.39-7.42 (dd, 1 H, ArH), 7.22-7.27 (m, 1 H, ArH), 6.95-9.97 (dd, 1 H, ArH), 6.82-6.87 (d of t, 1 H, ArH), 6.70 (s, 1 H, OH), 5.36-5.46 (m, 1 H, olefinic H), 5.19-5.29 (m, 1 H, olefinic H), 3.46-3.49 (d, 2 H, CH_2), 1.66-1.93 (m, 2 H, CH_2), 1.18-1.39 (m, 4 H, CH_2), 0.82-0.94 (t, 3 H, CH_2).

2-Hydroxyphenylprop-2-ynyl sulfide (28). colorless oil (0.81 g, 42%). ^{1}H NMR ($CDCl_3$) δ 7.54-7.57 (d, 1 H, *J* = 7.6 Hz, ArH), 7.29-7.34 (t, 1 H, *J* = 7.7 Hz, ArH), 7.00-7.02 (dd, 1 H, *J* = 8.0 Hz, ArH), 6.87-6.92 (t, 1 H, *J* = 7.5 Hz, ArH), 6.72 (s, 1 H, OH), 3.39-3.40 (d, 2 H, *J* = 2.3 Hz, CH_2), 2.25 (s, 1 H, CH).

2-Hydroxyphenylbut-2-ynyl sulfide (29). colorless oil (0.17 g, 61%). ^{1}H NMR ($CDCl_3$) δ 7.51-7.54 (dd, 1 H, *J* = 7.7 Hz and 1.3 Hz, ArH), 7.26-7.32 (t, 1 H, *J* = 8.1 Hz

and 1.2 Hz, ArH), 6.98-7.01 (d, 1 H, J = 8.1 Hz, ArH), 6.86-6.91 (t, 1 H, J = 7.5 Hz, ArH), 6.78 (s, 1 H, OH), 3.35-3.38 (q, 2 H, J = 2.2 Hz, CH_2), 1.77-1.79 (t, 3 H, J = 2.5 Hz, CH_3).

2-Hydroxyphenylpent-2-ynyl sulfide (30). colorless oil (90 mg, 47%). ^1H NMR ($CDCl_3$) δ 7.51-7.54 (dd, 1 H, J = 8.2 Hz and 1.6 Hz, ArH), 7.26-7.32 (t, 1 H, J = 7.3 Hz and 1.7 Hz, ArH), 6.98-7.01 (dd, 1 H, J = 8.1 Hz and 1.0 Hz, ArH), 6.85-6.90 (t, 1 H, J = 7.5 Hz and 1.0 Hz, ArH), 6.78 (s, 1 H, OH), 3.39-3.41 (t, 2 H, J = 2.3 Hz, CH_2), 2.08-2.15 (m, 2 H, CH_2), 0.89-0.95 (t, 3 H, J = 7.5 Hz, CH_3).

2-Hydroxyphenylhex-2-ynyl sulfide (31). colorless oil (0.108 g, 51%). ^1H NMR ($CDCl_3$) δ 7.51-7.54 (d, 1 H, J = 7.7 Hz, ArH), 7.26-7.32 (t, 1 H, J = 7.7 Hz, ArH), 6.98-7.00 (dd, 1 H, J = 8.1 Hz, ArH), 6.85-6.90 (d of t, 1 H, J = 7.4 Hz, ArH), 6.77 (s, 1 H, OH), 3.39-3.40 (t, 2 H, J = 2.3 Hz, CH_2), 2.10-2.16 (m, 2 H, CH_2), 1.42-1.47 (m, 2 H, CH_2), 1.25-1.39 (m, 4 H, CH_2), 0.86-0.90 (t, 3 H, J = 7.3 Hz, CH_3).

2-Hydroxyphenylhept-3-ynyl sulfide (33). colorless oil (0.13 g, 50%). ^1H NMR ($CDCl_3$) δ 7.46-7.49 (dd, 1 H, J = 7.7 Hz and 1.6 Hz, ArH), 7.24-7.30 (m, 1 H, ArH), 6.97-7.00 (dd, 1 H, J = 8.2 Hz and 1.2 Hz, ArH), 6.84-6.87 (d of t and s, 2 H, J = 7.3 Hz and 1.0 Hz, ArH and OH), 2.78-2.82 (t, 2 H, J = 7.0 Hz, CH_2), 2.33-2.39 (m, 2 H, CH_2), 2.11-2.17 (m, 2 H, CH_2), 1.45-1.55 (m, 2 H, CH_2), 0.94-1.00 (t, 3 H, J = 6.8 Hz, CH_3).

2-Hydroxyphenyloct-2-ynyl sulfide (35). colorless oil (0.126 g, 49%). ^1H NMR ($CDCl_3$) δ 7.51-7.54 (dd, 1 H, J = 7.7 Hz and 1.5 Hz, ArH), 7.25-7.31 (t, 1 H, J = 8.4 Hz and 1.5 Hz, ArH), 6.98-7.00 (d, 1 H, J = 8.2 Hz, ArH), 6.85-6.90 (t, 1 H, J = 7.3 Hz, ArH), 6.77 (s, 1 H, OH), 3.39-3.40 (t, 2 H, J = 2.5 Hz, CH_2), 2.10-2.16 (m, 2 H, CH_2), 1.42-1.47 (m, 2 H, CH_2), 1.25-1.39 (m, 4 H, CH_2), 0.86-0.90 (t, 3 H, J = 7.0 Hz, CH_3).

2-Acetoxyphenylmethyl sulfide (36). colorless oil (2.3 g, 89%). ^{1}H NMR ($CDCl_3$) δ 7.02-7.31 (m, 4 H, ArH), 2.43 (s, 3 H, CH_3), 2.34 (s, 3 H, CH_3); FAB-MS 183 (MH^+, 88), 182 (M^+, 100), 140 (90).

2-Propionoyloxyphenylmethyl sulfide (37). colorless oil (0.27 g, 65%). ^{1}H NMR ($CDCl_3$) δ 7.18-7.26 (m, 3 H, ArH), 7.02-7.05 (dd, 1 H, J = 8.0 Hz and 1.8 Hz, ArH), 2.61-2.68 (q, 2 H, J = 7.5 Hz, CH_2), 2.42 (s, 3 H, CH_3), 1.27-1.32 (t, 3 H, J = 7.5 Hz, CH_3); FAB-MS 197 (MH^+, 100), 196 (M^+, 96), 140 (90), 57 (60).

2-(Trifluoromethylcarbonyloxy)phenylmethyl sulfide (38). colorless oil (3.1 g, 92%). ^{1}H NMR ($CDCl_3$) δ 7.32-7.37 (m, 3 H, ArH), 7.15-7.16 (m, 1 H, ArH), 2.43 (s, 3 H, CH_3); FAB-MS 237 (MH^+, 80), 236 (M^+, 100), 140 (90).

2-(α-Chloromethyl)carbonyloxyphenylmethyl sulfide (39). white solid (0.24 g, 52%). mp = 97-99 °C. ^{1}H NMR ($CDCl_3$) δ 7.21-7.33 (m, 3 H, ArH), 7.07-7.18 (dd, 1 H, J = 7.8 Hz and 1.5 Hz, ArH), 4.12 (s, 2 H, CH_2), 2.44 (s, 3 H, CH_3); ^{13}C NMR ($CDCl_3$) δ 165.44, 149.56, 131.19, 127.68, 126.22, 121.96, 40.64, 15.40; EI-MS 218 (M^+ + 2, ^{37}Cl, 46), 216 (M^+, ^{35}Cl, 100), 140 (80); HRMS (CI) calcd for $C_9H_{10}ClO_2S$ (MH^+) 217.00901, found 217.00871.

2-(α-bromomethyl)carbonyloxyphenylmethyl sulfide (40). pale yellow solid (0.39 g, 72%). mp = 77-78 °C. ^{1}H NMR ($CDCl_3$) δ 7.21-7.33 (m, 3 H, ArH), 7.07-7.20 (dd, 1 H, J = 7.8 Hz and 1.6 Hz, ArH), 4.37 (s, 2 H, CH_2), 2.44 (s, 3 H, CH_3); EI-MS 262 (M^+ + 2, ^{81}Br, 80), 260 (M^+, ^{79}Br, 80), 140 (100); HRMS (CI) calcd for $C_9H_{10}BrO_2S$ (MH^+) 260.95845, found 260.95837.

2-Acetoxyphenylethyl sulfide (41). colorless oil (0.28 g, 74%). ^{1}H NMR ($CDCl_3$) δ 7.35-7.38 (m, 1 H, ArH), 7.19-7.22 (m, 2 H, ArH), 7.03-7.06 (m, 1 H, ArH), 2.86-2.93 (q, 2 H, J = 7.5 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.27-1.32 (t, 3 H, J = 7.2 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.07, 149.20, 129.83, 126.86, 126.48, 126.32, 122.59, 26.94, 20.79, 14.14; FAB-MS 197 (MH^+, 65), 196 (M^+, 80), 154 (100), 79 (35), 57 (50).

2-Acetoxyphenylpropyl sulfide (42). colorless oil (0.25 g, 68%). ^{1}H NMR ($CDCl_3$) δ 7.36-7.39 (m, 1 H, ArH), 7.19-7.20 (m, 2 H, ArH), 7.03-7.06 (m, 1 H, ArH), 2.82-2.87 (t, 2 H, J = 7.2 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.61-1.69 (q, 2 H, CH_2), 0.99-1.00 (t, 3 H, J = 7.3 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.11, 149.28, 129.97, 127.34, 126.84, 126.50, 122.59, 34.97, 22.37, 20.83, 13.42; FAB-MS 211 (MH^+, 45), 210 (M^+, 60), 168 (100), 79 (30).

2-Acetoxyphenylbutyl sulfide (43). colorless oil (0.36 g, 77%). ^{1}H NMR ($CDCl_3$) δ 7.35-7.38 (m, 1 H, ArH), 7.18-7.21 (m, 2 H, ArH), 7.02-7.05 (m, 1 H, ArH), 2.74-2.76 (d, 2 H, J = 6.7 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.82-1.86 (m, 1 H, CH), 1.01-1.03 (d, 6 H, J = 6.6 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.04, 149.25, 130.30, 130.03, 126.75, 126.45, 122.53, 42.00, 28.14, 21.97, 20.76; FAB-MS 225 (MH^+, 70), 224 (M^+, 98), 183 (100), 79 (30).

2-Acetoxyphenylpentyl sulfide (44). colorless oil (0.72 g, 92%). ^{1}H NMR ($CDCl_3$) δ 7.35-7.38 (m, 1 H, ArH), 7.19-7.25 (m, 2 H, ArH), 7.02-7.05 (m, 1 H, ArH), 2.83-2.88 (t, 2 H, J = 7.3 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.54-1.65 (m, 2 H, CH_2), 1.31-1.42 (m, 4 H, CH_2), 0.86-0.91 (t, 3 H, J = 7.1 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.04, 149.14, 130.09, 129.73, 126.71, 126.46, 122.53, 32.86, 30.92, 28.60. 22.16, 20.76, 13.89; FAB-MS 239 (MH^+, 65), 238 (M^+, 90), 197 (100), 196 (82), 79 (35).

2-Acetoxyphenylhexyl sulfide (45). colorless oil (0.41 g, 82%). ^{1}H NMR ($CDCl_3$) δ 7.35-7.38 (m, 1 H, ArH), 7.18-7.22 (m, 2 H, ArH), 7.02-7.06 (m, 1 H, ArH), 2.84-2.89 (t, 2 H, J = 7.3 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.60-1.65 (m, 2 H, CH_2), 1.39-1.44 (m, 4 H, CH_2), 1.25-1.29 (m, 4 H, CH_2), 0.86-0.90 (t, 3 H, J = 6.8 Hz, CH_3); ^{13}C NMR ($CDCl_3$) ∂ 168.93, 149.11, 130.05, 129.71, 126.66, 126.40, 122.48, 32.86, 31.23, 28.84, 28.40, 22.42, 20.69, 13.91; FAB-MS 253 (MH^+, 44), 252 (M^+, 55), 211 (100), 210 (80); HRMS (CI) calcd for $C_{14}H_{21}O_2S$ (MH^+) 253.12623, found 253.12637.

2-Acetoxyphenylheptyl sulfide (46). colorless oil (0.48 g, 67%). ^{1}H NMR ($CDCl_3$) δ 7.35-7.38 (m, 1 H, ArH), 7.17-7.21 (m, 2 H, ArH), 7.02-7.05 (m, 1 H, ArH),

2.83-2.88 (t, 2 H, J = 7.34 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.57-1.67 (m, 2 H, CH_2), 1.27-1.41 (m, 8 H, CH_2), 0.85-0.90 (t, 3 H, J = 6.9 Hz, CH_3); FAB-MS 267 (MH^+, 40), 266 (M^+, 55), 225 (100), 225 (84), 79 (32); HRMS (CI) calcd for $C_{15}H_{23}O_2S$ (MH^+) 267.14188, found 267.14181.

2-Acetoxyphenyloctyl sulfide (47). colorless oil (0.45 g, 66%). ^1H NMR ($CDCl_3$) δ 7.35-7.38 (m, 1 H, ArH), 7.19-7.21 (m, 2 H, ArH), 7.02-7.18 (m, 1 H, ArH), 2.83-2.88 (t, 2 H, J = 7.2 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.57-1.65 (m, 2 H, CH_2), 1.38-1.43 (m, 2 H, CH_2), 1.26-1.38 (m, 8 H, CH_2), 0.85-0.89 (t, 3 H, J = 7.0 Hz, CH_3); FAB-MS 281 (MH^+, 32), 280 (M^+, 36), 239 (100), 238 (70), 126 (20), 79 (20); HRMS (CI) calcd for $C_{16}H_{25}O_2S$ (MH^+) 281.15753, found 281.15759.

2-Acetoxyphenylnonyl sulfide (48). colorless oil (0.4 g, 85%). ^1H NMR ($CDCl_3$) δ 7.35-7.37 (m, 1 H, ArH), 7.19-7.21 (m, 2 H, ArH), 7.03-7.05 (m, 1 H, ArH), 2.84-2.88 (t, 2 H, J = 7.3 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.58-1.64 (m, 2 H, CH_2), 1.39-1.42 (m, 2 H, CH_2), 1.26-1.29 (m, 10 H, CH_2), 0.86-0.89 (t, 3 H, J = 7.0 Hz, CH_3); FAB-MS 295 (MH^+, 28), 294 (M^+, 40), 253 (100), 252 (80), 126 (25), 79 (32).

2-Acetoxyphenylcyclohexyl sulfide (49). colorless oil (0.45 g, 78%). ^1H NMR ($CDCl_3$) δ 7.45-7.47 (dd, 1 H, J = 7.6 Hz and 1.7 Hz, ArH), 7.23-7.27 (dd, 1 H, J = 7.8 Hz and 1.8 Hz, ArH), 7.17-7.21 (t, 1 H, J = 7.6 Hz and 1.5 Hz, ArH), 7.04-7.07 (dd, 1 H, J = 7.8 Hz and 1.5 Hz, ArH), 3.07-3.08 (m, 1 H, CH), 2.34 (s, 3 H, CH_3), 1.94-1.96 (m, 2 H, CH_2), 1.75-1.78 (m, 2 H, CH_2), 1.25-1.62 (m, 6 H, CH_2); ^{13}C NMR ($CDCl_3$) δ 169.14, 150.67, 133.18, 128.38, 127.89, 126.34, 122.70, 49.69, 46.08, 33.32, 25.97, 25.67, 20.89; FAB-MS 251 (MH^+, 84), 250 (M^+, 100), 209 (75), 208 (94), 169 (75), 126 (55), 79 (56); HRMS (CI) calcd for $C_{14}H_{19}O_2S$ (MH^+) 251.11058, found 251.11064.

2-Acetoxyphenylcycloheptyl sulfide (50). colorless oil (0.45 g, 64%). ^1H NMR ($CDCl_3$) δ 7.41-7.43 (dd, 1 H, J = 7.6 Hz and 1.8 Hz, ArH), 7.17-7.26 (m, 2 H, ArH), 7.04-7.06 (dd, 1 H, J = 7.7 Hz and 1.6 Hz, ArH), 3.29-3.34 (m, 1 H, CH), 2.34 (s, 3 H, CH_3), 1.95-2.02 (m, 2 H, CH_2), 1.69-1.72 (m, 2 H, CH_2), 1.46-1.71 (m, 8 H, CH_2); ^{13}C

NMR ($CDCl_3$) δ 169.16, 149.98, 132.53, 129.33, 127.60, 126.43, 122.70, 47.39, 34.56, 28.27, 25.82, 20.88; FAB-MS 265 (MH^+, 55), 264 (M^+, 94), 222 (80), 169 (100), 126 (52), 95 (72), 79 (80); HRMS (CI) calcd for $C_{15}H_{21}O_2S$ (MH^+) 265.12623, found 265.12631.

2-Acetoxyphenylbenzyl sulfide (51). white solid (0.26 g, 75%). mp = 60-61 °C. ^1H NMR ($CDCl_3$) δ 7.21-7.32 (m, 7 H, ArH), 7.13-7.16 (m, 1 H, ArH), 7.06-7.07 (m, 1 H, ArH), 4.05 (s, 2 H, CH_2), 2.32 (s, 3 H, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.10, 149.62, 136.84, 131.34, 129.28, 128.89, 128.47, 127.68, 127.27, 126.46, 122.56, 38.20, 20.81; FAB-MS 259 (MH^+, 52), 258 (M^+, 54), 217 (58), 216 (64), 91 (100); HRMS (CI) calcd for $C_{15}H_{15}O_2S$ (MH^+) 259.07928, found 259.07916.

2-Acetoxyphenyl-2-phenethyl sulfide (52). colorless oil (0.8 g, 96%). ^1H NMR ($CDCl_3$) δ 7.40-7.43 (dd, 1 H, J = 7.0 Hz and 1.4 Hz, ArH), 7.18-7.31 (m, 7 H, ArH), 7.05-7.08 (dd, 1 H, J = 7.0 Hz and 1.5 Hz, ArH), 3.10-3.13 (t, 2 H, J = 5.5 Hz, CH_2), 2.87-2.91 (t, 2 H, J = 6.3 Hz, CH_2), 2.34 (s, 3 H, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.08, 149.57, 140.00, 130.45, 129.35, 128.48, 127.29, 126.58, 126.46, 122.73, 35.50, 34.51, 20.78; FAB-MS 273 (MH^+, 44), 272 (M^+, 46), 231 (64), 105 (100); HRMS (CI) calcd for $C_{16}H_{17}O_2S$ (MH^+) 273.09493, found 273.09485.

2-Acetoxyphenyl-3-phenylpropyl sulfide (53). colorless oil (0.47 g, 66%). ^1H NMR ($CDCl_3$) δ 7.15-7.33 (m, 8 H, ArH), 7.03-7.05 (dd, 1 H, J = 7.5 Hz and 1.9 Hz, ArH), 2.84-2.89 (t, 2 H, J = 7.2 Hz, CH_2), 2.71-2.76 (t, 2 H, J = 7.4 Hz, CH_2), 2.33 (s, 3 H, CH_3), 1.91-1.96 (m, 2 H, CH_2); ^{13}C NMR ($CDCl_3$) δ 169.03, 149.37, 141.11, 130.09, 129.57, 128.44, 128.36, 126.98, 126.49, 125.95, 122.60, 34.57, 32.19, 30.42, 20.78; FAB-MS 287 (MH^+, 36), 286 (M^+, 40), 245 (100), 244 (70), 117 (50), 91 (90); HRMS (CI) calcd for $C_{17}H_{19}O_2S$ (MH^+) 287.11058, found 287.11049.

2-Acetoxy-3-phenoxypropyl sulfide (54). colorless oil (0.58 g, 83%). ^1H NMR ($CDCl_3$) δ 7.41-7.43 (dd, 1 H, J = 6.0 Hz and 1.8 Hz, ArH), 7.18-7.40 (m, 4 H, ArH), 7.04-7.06 (dd, 1 H, J = 6.7 Hz and 2.2 Hz, ArH), 6.87-7.03 (m, 3 H, ArH), 4.03-4.07 (t, 2

H, J = 5.9 Hz, CH_2), 3.06-3.11 (t, 2 H, J = 7.1 Hz, CH_2), 2.33 (s, 3 H, CH_3), 2.05-2.12 (m, 2 H, CH_2); ^{13}C NMR ($CDCl_3$) δ 169.08, 149.52, 130.25, 129.43, 128.47, 127.21, 127.01, 122.70, 120.74, 114.43, 65.70, 29.56, 28.75, 20.80; FAB-MS 303 (MH^+, 34), 302 (M^+, 34), 260 (68), 209 (50), 167 (100), 133 (50), 107 (30), 79 (40); HRMS (CI) calcd for $C_{17}H_{19}O_3S$ (MH^+) 303.10549, found 303.10533.

2-Acetoxyphenyl-6-bromohexyl sulfide (56). colorless oil (0.24 g, 91%). ^1H NMR ($CDCl_3$) δ 7.35-7.39 (m, 1 H, ArH), 7.20-7.26 (m, 2 H, ArH), 7.03-7.07 (m, 1 H, ArH), 3.38-3.42 (t, 2 H, J = 6.7 Hz, CH_2), 2.85-2.90 (t, 2 H, J = 7.2 Hz, CH_2), 2.35 (s, 3 H, CH_3), 1.81-1.88 (m, 2 H, CH_2), 1.60-1.68 (m, 2 H, CH_2), 1.42-1.47 (m, 4 H, CH_2); HRMS (CI) calcd for $C_{14}H_{20}BrO_2S$ (MH^+) 331.03670, found 331.03658.

2-Acetoxyphenyl-5-bromopentyl sulfide (57). pale yellow oil (0.225 g, 100%). ^1H NMR ($CDCl_3$) δ 7.36-7.39 (m, 1 H, ArH), 7.18-7.26 (m, 2 H, ArH), 7.03-7.07 (m, 1 H, ArH), 3.37-3.42 (t, 2 H, J = 6.7 Hz, CH_2), 2.86-2.90 (t, 2 H, J = 6.9 Hz, CH_2), 2.35 (s, 3 H, CH_3), 1.82-1.92 (m, 2 H, CH_2), 1.54-1.68 (m, 4 H, CH_2); ^{13}C NMR ($CDCl_3$) δ 169.06, 149.24, 130.20, 129.59, 127.10, 126.54, 122.66, 33.49, 32.83, 32.18, 28.12, 27.26, 20.82; HRMS (CI) calcd for $C_{13}H_{18}BrO_2S$ (MH^+) 317.02105, found 317.02093.

2-Acetoxyphenyl-5-carboxybutyl sulfide (59). colorless oil (g, 85%). ^1H NMR ($CDCl_3$) δ 7.35-7.39 (m, 1 H, ArH), 7.20-7.26 (m, 2 H, ArH), 7.04-7.06 (m, 1 H, ArH), 2.87-2.89 (t, 2 H, J = 7.13 Hz, CH_2), 2.34-2.39 (s and t, 5 H, CH_3 and CH_2), 1.76-1.79 (m, 4 H, CH_2), 1.65-1.69 (m, 2 H, J = 5.4 Hz, CH_2); ^{13}C NMR ($CDCl_3$) δ 169.08, 149.49, 130.35, 129.43, 127.22, 126.59, 122.68, 33.38, 32.69, 28.23, 23.64, 20.78.

2-Acetoxyphenyl-2-butoxyethyl sulfide (63). colorless oil (52 mg, 72%). ^1H NMR ($CDCl_3$) δ 7.42-7.45 (dd, 1 H, J = 7.0 Hz and 2.3 Hz, ArH), 7.20-7.24 (m, 2 H, ArH), 7.04-7.19 (dd, 1 H, J = 7.1 Hz and 2.1 Hz, ArH), 3.55-3.60 (t, 2 H, J = 6.9 Hz, CH_2), 3.40-3.44 (t, 2 H, J = 6.6 Hz, CH_2), 3.04-3.08 (t, 2 H, J = 6.9 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.49-1.56 (m, 2 H, CH_2), 1.31-1.39 (m, 2 H, CH_2), 0.88-0.93 (t, 3 H, J = 7.3

Hz, CH_3); FAB-MS 269 (MH^+, 24), 268 (M^+, 40), 226 (44), 195 (100), 125 (24); HRMS (CI) calcd for $C_{14}H_{21}O_3S$ (MH^+) 269.12114, found 269.12123.

2-Acetoxyphenyl-3-ethoxypropyl sulfide (64). colorless oil (0.145 g, 70%). ^1H NMR ($CDCl_3$) δ 7.39-7.41 (m, 1 H, J = 9.4 Hz, ArH), 7.19-7.22 (m, 2 H, ArH), 7.03-7.06 (m, 1 H, ArH), 3.43-3.51 (m, 4 H, CH_2), 2.96-2.99 (t, 2 H, J = 7.1 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.86-1.89 (m, 2 H, CH_2), 1.17-1.21 (t, 3 H, J = 7.0 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.09, 149.30, 129.98, 129.69, 126.94, 126.54, 122.61, 68.58, 66.19, 29.68, 29.25, 20.99, 20.81, 15.14; FAB-MS 255 (MH^+, 100), 254 (M^+, 90), 212 (84), 209 (54), 167 (66), 85 (30); HRMS (CI) calcd for $C_{13}H_{19}O_3S$ (MH^+) 255.10549, found 255.10541.

2-Acetoxyphenyl-*trans*-hept-2-enyl sulfide (65). colorless oil (29 mg, 62%). ^1H NMR ($CDCl_3$) δ 7.36-7.39 (dd, 2 H, J = 7.3 Hz and 1.8 Hz, ArH), 7.15-7.25 (m, 1 H, ArH), 7.03-7.06 (dd, 1 H, J = 7.4 Hz and 1.7 Hz, ArH), 5.41-5.56 (m, 2 H, olefinic H), 3.45-3.47 (d, 2 H, J = 6.4 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.93-2.00 (m, 2 H, CH_2), 1.20-1.36 (m, 4 H, CH_2), 0.83-0.94 (t, 3 H, J = 7.1 Hz, CH_3); HRMS (CI) calcd for $C_{15}H_{21}O_2S$ (MH^+) 265.12623, found 265.12614.

2-Acetoxyphenylprop-2-ynyl sulfide (66). colorless oil (94 mg, 58%). ^1H NMR ($CDCl_3$) δ 7.56-7.59 (dd, 1 H, J = 7.5 Hz and 1.7 Hz, ArH), 7.22-7.33 (m, 2 H, ArH), 7.08-7.11 (dd, 1 H, J = 7.7 Hz and 1.6 Hz, ArH), 3.56-3.57 (d, 2 H, J = 2.6 Hz, CH_2), 2.35 (s, 3 H, CH_3), 2.22-2.24 (t, 1 H, J = 2.6 Hz, CH); FAB-MS 207 (MH^+, 40), 206 (M^+, 30), 205 (M^+-1, 55), 165 (52), 79 (100); HRMS (CI) calcd for $C_{11}H_{11}O_2S$ (MH^+) 207.04798, found 207.04760.

2-Acetoxyphenylbut-2-ynyl sulfide (67). colorless oil (0.164 g, 78%). ^1H NMR ($CDCl_3$) δ 7.52-7.54 (dd, 1 H, J = 7.1 Hz and 2.2 Hz, ArH), 7.20-7.29 (m, 2 H, ArH), 7.06-7.09 (dd, 1 H, J = 7.3 Hz and 2.0 Hz, ArH), 3.55-3.56 (q, 2 H, J = 2.5 Hz, CH_2), 2.34 (s, 3 H, CH_3), 1.79-1.80 (t, 3 H, J = 2.5 Hz, CH_3); FAB-MS 221 (MH^+, 38), 220 (M^+, 50), 219 (M^+-1, 100), 179 (75), 178 (90); HRMS (CI) calcd for $C_{12}H_{13}O_2S$ (MH^+) 221.06363, found 221.06382.

2-Acetoxyphenylpent-2-ynyl sulfide (68). colorless oil (68 mg, 63%). ^{1}H NMR ($CDCl_3$) δ 7.53-7.56 (dd, 1 H, J = 7.2 Hz and 1.2 Hz, ArH), 7.22-7.27 (m, 2 H, ArH), 7.06-7.09 (dd, 1 H, J = 7.6 Hz and 1.2 Hz, ArH), 3.57 (s, 2 H, CH_2), 2.34 (s, 3 H, CH_3), 2.10-2.16 (m, 2 H, CH_2), 0.89-0.94 (t, 3 H, J = 7.5 Hz, CH_3); FAB-MS 235 (MH^+, 40), 234 (M^+, 60), 193 (50), 192 (100), 79 (80); HRMS (CI) calcd for $C_{13}H_{15}O_2S$ (MH^+) 235.07928, found 235.07983.

2-Acetoxyphenylhex-2-ynyl sulfide (69). colorless oil (80 mg, 69%). ^{1}H NMR ($CDCl_3$) δ 7.53-7.56 (dd, 1 H, J = 7.3 Hz and 1.9 Hz, ArH), 7.22-7.27 (m, 2 H, ArH), 7.06-7.09 (dd, 1 H, J = 7.4 Hz and 1.6 Hz, ArH), 3.57-3.59 (t, 2 H, J = 2.2 Hz, CH_2), 2.34 (s, 3 H, CH_3), 2.10-2.16 (m, 2 H, CH_2), 1.43-1.51 (q, 2 H, J = 7.2 Hz, CH_2), 0.89-0.94 (t, 3 H, J = 7.3 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.05, 149.49, 131.21, 128.66, 127.81, 126.47, 122.52, 84.33, 75.12, 22.35, 21.98, 20.80, 20.74, 13.39; FAB-MS 249 (MH^+, 30), 248 (M^+, 48), 207 (40), 206 (70), 157 (60), 79 (100); HRMS (CI) calcd for $C_{14}H_{17}O_2S$ (MH^+) 249.09493, found 249.09506.

2-Acetoxyphenylhept-3-ynyl sulfide (71). colorless oil (0.15 g, 96%). ^{1}H NMR ($CDCl_3$) δ 7.39-7.42 (dd, 1 H, J = 6.9 Hz and 1.8 Hz, ArH), 7.19-7.23 (m, 2 H, ArH), 7.02-7.05 (dd, 1 H, J = 7.5 Hz and 1.7 Hz, ArH), 2.94-2.99 (t, 2 H, J = 7.5 Hz, CH_2), 2.39-2.43 (m, 2 H, CH_2), 2.32 (s, 3 H, CH_3), 2.06-2.12 (m, 2 H, CH_2), 1.44-1.51 (q, 2 H, J = 7.2 Hz, CH_2), 0.92-0.96 (t, 3 H, J = 7.3 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.04, 149.85, 131.10, 128.78, 127.63, 126.56, 122.73, 81.74, 77.86, 32.85, 22.26, 20.79, 20.67, 19.68, 13.44; FAB-MS 263 (MH^+, 90), 221 (95), 139 (70), 79 (100); HRMS (CI) calcd for $C_{15}H_{19}O_2S$ (MH^+) 263.11058, found 263.11043.

2-Acetoxyphenyloct-2-ynyl sulfide (73). colorless oil (0.12 g, 75%). ^{1}H NMR ($CDCl_3$) δ 7.53-7.56 (dd, 1 H, J = 7.2 Hz and 1.5 Hz, ArH), 7.24-7.29 (m, 2 H, ArH), 7.06-7.19 (dd, 1 H, J = 7.7 Hz and 1.5 Hz, ArH), 3.57-3.58 (d, 2 H, J = 2.3 Hz, CH_2), 2.34 (s, 3 H, CH_3), 2.12-2.16 (m, 2 H, CH_2), 1.40-1.49 (m, 2 H, CH_2), 1.18-1.34 (m, 4 H, CH_2), 0.85-0.90 (t, 3 H, J = 6.5 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 169.12, 149.89, 131.19,

128.12, 127.79, 126.45, 122.51, 84.52, 74.96, 30.91, 28.23, 22.34, 22.13, 20.80, 18.71, 13.92; FAB-MS 277 (MH^+, 55), 235 (60), 79 (100); HRMS (CI) calcd for $C_{16}H_{21}O_2S$ (MH^+) 277.12623, found 277.12615.

2-Propionoxyphenyhept-2-ynyl sulfide (74). colorless oil (0.13 g, 88%). ^1H NMR ($CDCl_3$) δ 7.52-7.55 (dd, 1 H, J = 7.5 Hz and 2.0 Hz, ArH), 7.19-7.29 (m, 2 H, ArH), 7.05-7.09 (dd, 1 H, J = 7.7 Hz and 1.7 Hz, ArH), 3.56-3.58 (t, 2 H, J = 2.4 Hz, CH_2), 2.61-2.68 (q, 2 H, J = 7.6 Hz, CH_2), 2.12-2.18 (m, 2 H, CH_2), 1.27-1.45 (m, 7 H, 2 CH_2 and 1 CH_3), 0.85-0.90 (t, 3 H, J = 7.1 Hz, CH_3); ^{13}C NMR ($CDCl_3$) δ 172.47, 149.56, 131.21, 128.64, 127.78, 126.32, 122.53, 84.41, 74.99, 30.59, 27.55, 22.34, 21.79, 18.42, 13.53, 9.07; HRMS (CI) calcd for $C_{16}H_{21}O_2S$ (MH^+) 277.12623, found 277.12641.