Neso Experimental

**N1, N6-dimethyl-N1, N6-bis(2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl) benzyl)hexane-1,6-diamine**



N1, N6-Dimethylhexane-1,6-diamine (0.25 mL, 1.40 mmol) was added dropwise to a solution of 2-(2-(bromomethyl)phenyl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane (0.873 g, 2.94 mmol) and K2CO3 in MeCN (10 mL) at 0 oC. The reaction was allowed to warm to rt and stir for 16 h before being filtered and concentrated *in-vacuo* to afford the crude material. The crude material was triturated with EtOAc to afford the title compound as a white solid (0.128 g, 0.22 mmol, 16 %). Mp 100-103 oC. 1H NMR (300 MHz, CDCl3)  7.56 (m, 2 H, Ar*H*), 7.25 - 7.18 (m, 4 H, Ar*H*), 7.08 (m, 2 H, Ar*H*), 3.76 (s, 4 H, C*H2*Ar), 2.71 - 2.58 (m, 4 H, N(C*H2*CH2)), 2.40 (s, 6 H, C*H3*N), 1.63 - 1.45 (m, 4 H, N(CH2C*H2*)), 1.32 (s, 24 H, BPin), 1.25 (s, 4 H, N(CH2C*H2*); 13C NMR (75 MHz, CDCl3)  141.4, 132.3, 128.2, 126.9, 124.8, 81.3, 60.9, 55.6, 41.9, 27.3, 26.2, 24.9, 24.0; I.R (thinfilm) ν max (cm-1): 3039.8 (C-H sp2), 2962.07 (C-H Sp3); HRMS (ESI): m/z calculated for C34H55B2N2O4: requires 577.4348 for [M+H]+, found 577.4350

**N1,N3-dimethyl-N1,N3-bis(2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)propane-1,3-diamine**



*N,N′*-Dimethyl-1,3-propanediamine (0.061 mL, 0.49 mmol) was added to a solution of 2-(2-(bromomethyl)phenyl)-4,4,5,5-tetramethyl-1,3,2-dioxaborolane (0.305 g, 1.03 mmol) and K2CO3 (0.203 g, 1.47 mmol) in MeCN (5 mL) at 0 oC. The reaction was allowed to warm to rt and stir for 16 h before being filtered and concentrated *in-vacuo* to afford the title compound as a clear oil (0.24 g, 0.45 mmol, 92 %). 1H NMR (500 MHz, CDCl3)  7.59 (d, *J* = 6.8 Hz, 2 H, Ar*H*), 7.26 - 7.18 (m, 4 H, Ar*H*), 7.14 (d, *J* = 7.3 Hz, 2 H, Ar*H*), 3.72 (s, 4 H, C*H2*Ar), 2.59 - 2.51 (m, 4 H, N(C*H2*CH2), 2.32 (s, 6 H, C*H3*N), 1.81 - 1.68 (m, 2H, N(CH2C*H2*CH2)N), 1.31 (s, 24 H, BPin); 13C NMR (125.5 MHz, CDCl3)  142.6, 133.1, 128.8, 126.6, 126.1, 82.0, 61.1, 54.5, 42.1, 25.7; I.R (thinfilm) ν max (cm-1): 2981.95 (C-H Sp3); HRMS (ESI): m/z calculated for C31H49B2N2O4: requires 535.3878 for [M+H]+, found 535.3869

**N1, N6-dimethyl-N1, N6-bis(2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl) benzyl)hexane-1,6-diamine** (300 MHz, CDCl3)



**N1, N6-dimethyl-N1, N6-bis(2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl) benzyl)hexane-1,6-diamine** (75.5 MHz, CDCl3)



**N1,N3-dimethyl-N1,N3-bis(2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)propane-1,3-diamine** (500 MHz, CDCl3)



**N1,N3-dimethyl-N1,N3-bis(2-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)propane-1,3-diamine** (125.75 MHz, CDCl3)

