**Synthesis of BMT-819 Analogues**

A black background with a black square

Description automatically generated with medium confidence

**Compound Characterization**

B508. 1H NMR (400 MHz, CDCl3) δ 8.06 (dd, J = 8.5, 4.0 Hz, 1H), 7.89 (dd, J = 8.4, 1.3 Hz, 1H), 7.69 (ddt, J = 8.3, 4.5, 2.0 Hz, 1H), 7.55 – 7.46 (m, 1H), 7.42 (s, 1H), 7.07 (dd, J = 12.3, 8.3 Hz, 1H), 6.92 – 6.78 (m, 2H), 5.45 (d, J = 8.4 Hz, 2H), 4.70 (s, 1H), 4.57 (s, 1H), 3.80 (t, J = 5.9 Hz, 1H), 3.65 (t, J = 5.9 Hz, 1H), 2.80 (dt, J = 20.6, 6.0 Hz, 2H), 2.73 (s, 3H), 2.36 (t, J = 7.6 Hz, 2H), 1.68 (qd, J = 7.6, 5.9 Hz, 2H), 0.97 (td, J = 7.3, 5.5 Hz, 3H); 13C NMR (101 MHz, CDCl3) δ 171.90 (d, J = 17.5 Hz), 158.96, 156.95 (d, J = 16.7 Hz), 147.89, 141.89, 135.06, 134.03, 130.11, 129.59 – 129.27 (m), 128.18, 127.06, 126.01, 124.14, 122.64 (d, J = 5.2 Hz), 120.18 (d, J = 7.4 Hz), 113.68 (d, J = 16.6 Hz), 112.45, 112.04, 66.90 (d, J = 5.9 Hz), 47.51, 44.30, 43.45, 39.79, 35.79, 35.55, 28.79, 27.75, 25.50, 18.64 (d, J = 9.2 Hz), 14.05 (d, J = 3.2 Hz). HRMS (m/z): [M]+ calcd. for C24H26N2O2, 375.1994; found, 375.1950;

BMT-174819. 1H NMR (500 MHz, CDCl3) δ 8.06 (dd, J = 8.4, 6.1 Hz, 1H), 7.89 (dd, J = 8.6, 4.7 Hz, 1H), 7.73 – 7.65 (m, 1H), 7.55 – 7.48 (m, 1H), 7.42 (d, J = 3.6 Hz, 1H), 7.07 (dd, J = 11.6, 8.3 Hz, 1H), 6.86 (ddd, J = 18.5, 8.4, 2.6 Hz, 1H), 6.77 (dd, J = 26.4, 2.7 Hz, 1H), 5.45 (d, J = 12.1 Hz, 2H), 5.27 (s, 2H), 4.67 (s, 1H), 4.51 (s, 1H), 3.78 (t, J = 6.0 Hz, 1H), 3.59 (t, J = 5.9 Hz, 1H), 2.82 (t, J = 5.9 Hz, 1H), 2.77 (t, J = 6.0 Hz, 1H), 2.73 (d, J = 4.0 Hz, 3H), 2.12 (td, J = 7.6, 3.9 Hz, 2H), 2.01 (tdd, J = 7.7, 5.7, 2.7 Hz, 2H), 1.96 (dt, J = 5.6, 2.7 Hz, 1H), 1.87 (td, J = 7.8, 4.5 Hz, 2H), 1.66 (td, J = 7.5, 3.6 Hz, 2H). 13C NMR (126 MHz, DMSO) δ 170.30 (d, J = 13.4 Hz), 159.37 (d, J = 3.9 Hz), 157.50, 157.33, 148.31, 142.22, 135.20, 134.00, 130.50, 130.00 – 129.67 (m), 128.41, 127.37, 126.42, 124.52 (d, J = 3.8 Hz), 123.03 (d, J = 4.9 Hz), 120.58 (d, J = 8.8 Hz), 114.34, 114.09, 112.89, 112.46, 83.18, 77.75, 77.50, 77.24, 69.58, 67.33 (d, J = 6.5 Hz), 53.86, 47.66, 44.85, 43.69, 40.43, 32.95 (d, J = 2.9 Hz), 29.02, 28.34 (d, J = 4.9 Hz), 28.07, 27.91, 27.59, 25.89, 13.72. HRMS (m/z): [M]+ calcd. for C28H28N4O2, 453.2212; found, 453.2150;