**1HNMR of CA-4 analogue**





**13CNMR of CA-4 analogue**





**1-(3-Chloro-4-fluorophenyl)-*N*-(2-methoxyphenyl)-5-(3,4,5-trimethoxyphenyl)-1*H*-1,2,4-triazole-3-carboxamide (CA-4 analogue)**

Yellowish brown crystals ( 1.6 g, 66% yield); mp 166-169°C; 1HNMR (400 MHz, CDCl3) δ (ppm): 3.67 (s, 6H, 3,5-di-OCH3) , 3.82 (s, 3H, O-CH3), 3.86 (s, 3H, O-CH3), 6.70 (s, 2H, Ar-H), 6.85(d, 1H, *J* =7.75Hz, Ar-H), 6.95(t, 1H, *J* =7.25Hz, Ar-H), 7.03 (t, 1H, *J* =7.38Hz, Ar-H), 7.17-7.23(m, 2H, Ar-H), 7.57(s, 1H, Ar-H), 8.51(d, 1H, *J* =7.64Hz, Ar-H), 9.49(s, 1H, CO-NH); 13CNMR (100 MHz, CDCl3, δ ppm): 55.96 (OCH3), 56.26 (2 OCH3),, 60.97 (OCH3),, 106.79 (Ar-C),, 117.05 (Ar-C),, 117.28 (Ar-C),, 120.31, (Ar-C), 121.22 (Ar-C),, 121.43 (Ar-C), 122.14 (Ar-C), 122.33 (Ar-C),, 124.39 (Ar-C), 125.56 (Ar-C), 125.63 (Ar-C),, 127.19 (Ar-C), 128.22 ((Ar-C),), 134.41(Ar-C),140.60(2C-OCH3), 148.39 (2-C-OCH3), 153.46 (C=N), 155.14 (C=N), 156.50 (d, J = 175 Hz, C-F) and 159.57 (C=O); Anal. Calcd for C25H22ClFN4O5: C, 58.54; H, 4.32; N, 10.92. Found: C, 58.62; H, 4.39; N, 10.98.