SUPPLEMENTARY MATERIAL TO

**Synthesis and biological evaluation of (3-aryl-1,2-oxazol-5-yl)methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylates as antioxidant and antimicrobial agents**

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ANALYTICAL AND SPECTRAL DATA OF THE SYNTHESIZED COMPOUNDS

***Spectral data***

***ethyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate***(**2**):Yellow solid; M.P: 208-210oC: 1H-NMR (400 MHz, CDCl3): δ 7.81 (d, 1H, *J* = 4.1Hz, Ar-H), 7.62 (dd, 1H, *J* = 4.1Hz, 4.1Hz, Ar-H), 7.30-7.50 (m, 1H, Ar-H), 7.13(s, 1H, chromene-CH), 4.22(q, *J* = 7.09 Hz, 2H),1.25 (t, *J* = 7.09 Hz, 3H); ESI-MS (m/z): 237.0 (M+).

***6-fluoro-4-oxo-4H-chromene-2-carboxylic acid*** (**3**): Yellow solid; M.P: 255-257 oC; 1H-NMR (400 MHz, CDCl3): δ 7.83 (d, 1H, *J* = 4Hz, Ar-H), 7.63 (dd, 1H, *J* = 4Hz, 4Hz, Ar-H), 7.42-7.50 (m, 1H, Ar-H), 7.10 (s, 1H, chromene-CH), ESI-MS (m/z): 209.0 (M+H).

***prop-2-yn-1-yl 6-fluoro-4-oxo- 4H-chromene-2-carboxylate* (4):** Off white solid; M.P: 112-114 oC; IR (KBr, cm-1): νmax 3051 (C-H, Ar), 2121 (alkyne), 1741(C=O, ester), 1654 (C=O, chromene), 1220, 1128 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.83 (d, 1H, *J* = 4Hz, Ar-H), 7.64 (dd, 1H, *J* = 4Hz, 4Hz, Ar-H), 7.46-7.51 (m, 1H, Ar-H), 7.15 (s, 1H, chromene-CH), 5.00 (s, 2H, O-*CH2*), 2.61 (s, 1H, alkyne); ESI-MS (*m/z*): 247.0 (M+).

 ***[3-(4-methoxyphenyl)-1,2-oxazol-5-yl]methyl6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C1):**Light brown solid; M.P: 142-144 oC; IR (KBr, cm-1): νmax 3061 (C-H, Ar), 1740 (C=O, ester), 1657 (C=O, chromene), 1608 (C=N), 1220, 1130 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.80-7.86 (m, 1H, Ar-H ), 7.61-7.65 (m, 1H, Ar-H), 7.46-7.50 (m, 1H, Ar-H ), 7.37 ( d, 2H, *J* = 8Hz, Ar-H ), 7.15 (s, 1H, chromene-CH), 7.12 (d, 2H, *J* = 8Hz, Ar-H ), 6.82 (s, 1H, Isoxazole-CH), 5.62 (s, 2H, O-CH2), 3.82 (s, 3H, O-CH3); 13C-NMR (100 MHz, CDCl3): δ 178.6 (C-4), 168.7 (-C=N), 162.3 (C-4’), 162.1(Isoxazole-C-O), 160.6 (CO2CH2-), 159.8 (d, *J* = 245.6 Hz, C-6), 153.0 (C-2), 146.1 (C-8a), 128.5 (C-2’, C-6’), 124.6 (d, *J* = 9.2 Hz, C-4a ), 122.1(d, *J* = 29.3 Hz, C-7), 121.4 (d, *J* = 10.5 Hz, C-8), 119.9 (C-1’), 118.6 (C-3), 114.7 (C-3’, C-5’), 110.0 (d, *J* = 23.8 Hz, C-5), 100.1(Isoxazole-CH), 61.9 (Ar-OCH3), 58.8 (O-CH2-), Anal. calcd. for C21H14FNO6: C, 63.80; H, 3.57; N, 3.54. Found: C, 63.88; H, 3.50; N, 3.57; ESI-MS (m/z): 396.0 (M+).

***[3-(pyridin-3-yl)-1, 2-oxazol-5-yl]methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate***(**C2**): White solid. M.P: 152-154 oC; IR (KBr, cm-1): νmax 3062 (C-H, Ar), 1735 (C=O, ester), 1656 (C=O, chromene), 1609 (C=N), 1231, 1128 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 9.06 (s, 1H, Ar-H), 8.03- 8.10 (m, 1H), 7.82-7.86 (m, 1H), 7.69-7.74 (m, 2H), 7.61-7.66 (m, 1H), 7.45-7.48 (m, 1H), 7.17 (s, 1H, chromene-CH), 6.83 (s, 1H, Isoxazole-CH), 5.65 (s, 2H, O-CH2); 13C-NMR (100 MHz, CDCl3): δ 178.6 (C-4), 163.5 (-C=N), 162.1(Isoxazole-C-O), 161.3 (CO2CH2-), 159.2 (d, *J* = 245.4 Hz, C-6), 153.0 (C-2), 148.1 (C-4’), 147.5 (C-2’), 146.0 (C-8a), 134.5 (C-1’), 133.5 (C-6’), 124.7 (d, *J* = 9.2 Hz, C-4a ), 124.6 (C-5’), 122.1 (d, *J* = 29.1 Hz, C-7), 121.2 (d, *J* = 11.1 Hz, C-8), 119.1(C-3), 110.2 (d, *J* = 23.9 Hz, C-5), 100.1(Isoxazole-CH), 58.9 (O-CH2-); Anal. calcd for C19H11FN2O5: C, 62.30; H, 3.03; N, 7.65.Found: C, 62.28; H, 3.00; N, 7.64; ESI-MS (*m/z*): 367.0 (M+).

**(3-(2-(trifluoromethyl)phenyl)isoxazol-5-yl)methyl6-fluoro-4-oxo-4H-chromene-2-carboxylate** (**C3**): Off white solid. M.P: 148-150 oC; IR (KBr, cm-1): νmax 3058 (C-H, Ar), 1739 (C=O, ester), 1655 (C=O, chromene), 1609 (C=N), 1232, 1129 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.80-7.90 (m, 2H), 7.46-7.66 (m, 5H), 7.12 (s, 1H, chromene-CH), 6.82 (s, 1H, Isoxazole-CH), 5.62 (s, 2H, O-CH2); 13C-NMR (100 MHz, CDCl3): δ 178.6 (C-4), 168.8 (-C=N), 162.1 (Isoxazole-C-O), 161.5 (CO2CH2-), 159.8 (d, *J* = 245.6 Hz, C-6), 153.0 (C-2), 146.1 (C-8a), 133.1(C-5’), 130.6 (C-2’), 129.2 (C-4’), 128.9 (C-6’), 127.3 (q, *J* = 5.0 Hz, C-7’), 126.4 (C-3’), 125.5 (C-1’), 124.6 (d, *J* = 9.2 Hz, C-4a ), 122.1 (d, *J* = 29.3 Hz, C-7), 121.4 (d, *J* = 11.2 Hz, C-8), 118.9 (C-3), 110.2 (d, *J* = 23.2 Hz, C-5), 100.1 (Isoxazole-CH), 58.8 (O-CH2-); Anal. calcd. for C21H11F4NO5: C, 58.21; H, 2.56; N, 3.23. Found: C, 58.11; H, 2.52; N, 3.22; ESI-MS (m/z): 434.0 (M+).

***[3-(4-nitrophenyl)-1,2-oxazol-5-yl]methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C4):**

Pale Yellow solid. M.P: 198-200 oC; IR (KBr, cm-1): νmax 3076 (C-H, Ar), 1736 (C=O, ester), 1653 (C=O, chromene), 1609 (C=N), 1234, 1135 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 8.45 (d, 2H, *J* = 8.4 Hz, Ar-H ), 8.02 (d, 2H, *J* = 8.4 Hz, Ar-H ), δ 7.81-7.84 (m, 1H, Ar-H), 7.60-7.63 (m, 1H, Ar-H), 7.45-7.50 (m, 1H, Ar-H), 7.14 (s, 1H, chromene-CH), 6.81 (s, 1H, Isoxazole-CH), 5.65 (s, 2H, O-CH2); 13C-NMR (100 MHz, CDCl3): δ 178.6 (C-4), 170.1 (-C=N), 162.5 (Isoxazole-C-O), 160.8 (CO2CH2-),159.8 (d, *J* = 245.5 Hz, C-6), 153.0 (C-2), 148.2 (Ar-C-4’), 146.1 (C-8a), 134.9 (C-1’), 126.8 (C-2’, C-6’), 124.6 (C-3’, C-5’), 124.2 (d, *J* = 9.2 Hz, C-4a ), 122.4 (d, *J* = 27.3 Hz, C-7), 121.1(d, *J* = 10.8 Hz, C-8), 118.6 (C-3), 109.8 (d, *J* = 22.8 Hz, C-5), 100.1 (Isoxazole-CH), 58.8 (O-CH2-); Anal. calcd. for C20H11FN2O7: C, 58.54; H, 2.70; N, 6.83. Found: C, 58.46; H, 2.75; N, 6.75; ESI-MS (*m/z*): 411.0 (M+).

***(3-(4-butylphenyl)isoxazol-5-yl)methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C5):** Off white solid. M.P: 188-190 oC; IR (KBr, cm-1): νmax 3068 (C-H, Ar), 1737 (C=O, ester), 1655 (C=O, chromene), 1608 (C=N), 1230, 1129 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.80-7.86 (m, 1H, Ar-H), 7.60-7.66 (m, 3H, Ar-H), 7.44-7.49 (m, 1H, Ar-H), 7.35 (d, 2H, *J* = 8.0 Hz, Ar-H), 7.13 (s, 1H, chromene-CH), 6.82 (s, 1H, Isoxazole-CH), 5.62 (s, 2H, O-CH2), 2.68 (t, 2H, *J* = 8.0 Hz, Ar-CH2), 1.60-1.67 (m, 2H, -CH2), 1.33-1.42 (m, 2H, -CH2 ), 0.94 (t, 3H, *J* = 8.0 Hz, -CH3); 13C-NMR (100 MHz, CDCl3): δ 178.5 (C-4), 168.1 (-C=N), 162.3(Isoxazole-C-O), 161.4 (CO2CH2-), 160.0 (d, *J* = 245.6 Hz, C-6), 153.1(C-2), 146.3 (C-8a),142.8 (C-4’), 130.5(C-3’, C-5’), 125.8 (C-2’, C-6’), 125.6 (C-1’), 124.6 (d, *J* = 9.2 Hz, C-4a ), 122.1(d, *J* = 28.5 Hz, C-7), 121.5 (d, *J* = 10.2 Hz, C-8), 118.7 (C-3), 110.1(d, *J* = 23.4 Hz, C-5), 100.1(Isoxazole-CH), 58.8 (O-CH2-), 36.14 (Ar-CH2), 34.04 (Ar-CH2-CH2-), 22.4 (Ar-(CH2)2-CH2-), 14.2 (Ar-(CH2)3-CH3) :Anal. calcd. for C24H20FNO5 : C, 68.40; H, 4.78; N, 3.32; Found: C, 68.30; H, 4.69; N, 3.30; ESI-MS (*m/z*): 422.1 (M+).

***[3-(2-hydroxyphenyl)-1,2-oxazol-5-yl]methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C6):**

Off white solid. M.P: 171-173 oC; IR (KBr, cm-1): νmax 3335 (-OH), 3074 (C-H, Ar), 1736 (C=O, ester) , 1657 (C=O, chromene), 1605 (C=N), 1225, 1125 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 9.30 (s, 1H, -OH ), 7.81-7.87 (m, 1H, Ar-H), 7.61-7.67 (m, 1H, Ar-H), 7.46-7.54 (m, 2H, Ar-H), 7.34-7.41 (m, 1H, Ar-H), 7.17 (s, 1H, chromene-CH), 7.07-7.13 (m, 1H, Ar-H), 6.97-7.03 (m, 1H, Ar-H), 6.83 (s, 1H, Isoxazole-CH), 5.61 (s, 2H, O-CH2);  13C-NMR (100 MHz, CDCl3): δ in ppm: 178.5 (C-4), 164.3 (-C=N), 162.2 (Isoxazole-C-O), 161.5 (CO2CH2-), 159.8 (d, *J* = 245.6 Hz, C-6), 156.1 (C-6’), 153.0 (C-2), 146.2 (C-8a),131.9 (C-2’), 130.2 (C-4’), 124.7 (d, *J* = 9.2 Hz, C-4a ), 122.3 (C-3’), 122.1(d, *J* = 29.2 Hz, C-7), 121.5 (d, *J* = 11.0 Hz, C-8), 120.2 (C-1’), 118.7 (C-3), 117.0(C-5’), 109.9 (d, *J* = 23.8 Hz, C-5), 100.2 (Isoxazole-CH), 58.8 (O-CH2-); Anal. calcd. for C20H12FNO6: C, 63.00 ; H, 3.17; N, 3.67. Found: C, 63.06; H, 3.11; N, 3.59; ESI-MS (m/z): 382.1 (M+).

***[3-(3-chlorophenyl)isoxazol-5-yl]methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C7):** Off white solid. M.P: 152-154 oC; IR (KBr, cm-1): νmax 3085 (C-H, Ar), 1739 (C=O, ester), 1652 (C=O, chromene), 1606 (C=N), 1228, 1123 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.80-7.83 (m, 2H, Ar-H), 7.60-7.67 (m, 3H, Ar-H), 7.46-7.49 (m, 2H, Ar-H), 7.13 (s, 1H, chromene-CH), 6.80 (s, 1H, Isoxazole-CH), 5.63 (s, 2H, O-CH2); 13C-NMR (100 MHz, CDCl3): δ in ppm: 178.6 (C-4), 165.9 (-C=N), 162.2 (Isoxazole-C-O), 161.6 (CO2CH2-), 159.9 (d, *J* = 245.6 Hz, C-6), 153.1 (C-2), 146.3 (C-8a), 135.6 (C-5’), 134.9 (C-1’), 129.9 (C-3’), 129.6 (C-6’), 129.0 (C-4’), 125.8 (C-2’), 124.6 (d, *J* = 9.2 Hz, C-4a ), 122.1(d, *J* = 29.4 Hz, C-7), 121.5 (d, *J* = 11.2 Hz, C-8), 118.7 (C-3), 109.9 (d, *J* = 23.9 Hz, C-5), 100.1(Isoxazole-CH), 58.8 (O-CH2-); Anal. calcd. for C20H11ClFNO5 : C, 60.09; H, 2.77; N, 3.50. Found: C, 60.01; H, 2.72; N, 3.45; ESI-MS (m/z): 400.0 (M+, 100%) & 402 (M+2, 33%).

***[3-(4-chlorophenyl)isoxazol-5-yl]methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C8**): Pale yellow solid. M.P: 163-165 oC; IR (KBr, cm-1): νmax 3069 (C-H, Ar), 1735 (C=O, ester), 1657 (C=O, chromene), 1605 (C=N), 1234, 1127 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.70-7.79 (m, 1H, Ar-H), 7.60-7.68 (m, 1H, Ar-H), 7.52 (d, 2H, *J* = 8 Hz, Ar-H), 7.40-7.49 (m, 1H, Ar-H), 7.20 (d, 2H, *J* = 8 Hz, Ar-H), 7.12 (s, 1H, chromene-CH), 6.80 (s, 1H, Isoxazole-CH), 5.62 (s, 2H, O-CH2); 13C-NMR (100 MHz, CDCl3):δ 178.6 (C-4), 167.5 (-C=N), 163.6 (Isoxazole-C-O), 161.5 (CO2CH2-), 159.8 (d, *J* = 245.4 Hz, C-6), 153.0 (C-2), 146.1 (C-8a), 135.3 (C-4’), 129.8 (C-3’, C-5’), 127.4 (C-2’, C-6’), 126.3 (C-1’), 124.6 (d, *J* = 9.2 Hz, C-4a ), 122.1(d, *J* = 28.6 Hz, C-7), 121.6 (d, *J* = 11.0 Hz, C-8), 118.7 (C-3), 109.9 (d, *J* = 23.8 Hz, C-5), 100.1 (Isoxazole-CH), 58.8 (O-CH2-); Anal. calcd. for C20H11ClFNO5: C, 60.09; H, 2.77; N, 3.50. Found: C, 60.01; H, 2.71; N, 3.48;ESI-MS (m/z): 400.0 (M+, 100%) & 402 (M+2, 33%).

***[3-(4-bromophenyl)-1,2-oxazol-5-yl]methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C9):**

Pale yellow solid. M.P: 178-180 oC; IR (KBr, cm-1): νmax 3089 (C-H, Ar), 1730 (C=O, ester), 1653 (C=O, chromene), 1606 (C=N), 1238, 1123 (C-O-C); 1H-NMR (400 MHz, CDCl3):δ 7.83 (d, 2H, *J* = 8.8 Hz, Ar-CH), 7.60-7.68 (m, 1H, Ar-CH), 7.44-7.51(m, 2H, Ar-H), 7.33 (d, 2H, *J* =8.8 Hz, Ar-H), 7.13 (s, 1H, chromene-CH), 6.81 (s, 1H, Isoxazole-CH), 5.62 (s, 2H, O-CH2); 13C-NMR (100 MHz, CDCl3): δ 178.6 (C-4), 166.1 (-C=N), 163.6 (Isoxazole-C-O), 161.6 (CO2CH2-), 159.9 (d, *J* = 244.9 Hz, C-6), 153.1(C-2), 146.0 (C-8a), 132.3 (C-3’, C-5’), 128.6 (C-2’, C-6’), 127.1 (C-1’), 124.5 (d, *J* = 9.2 Hz, C-4a ), 122.9 (C-4’), 122.2 (d, *J* = 29.2 Hz, C-7), 121.5 (d, *J* = 10.8 Hz, C-8), 118.7 (C-3), 109.9 (d, *J* = 22.9 Hz, C-5), 100.2 (Isoxazole-CH), 58.8 (O-CH2-); Anal. calcd. for C20H11BrFNO5: C, 54.08; H, 2.50; N, 3.15. Found: C, 54.02; H, 2.48; N, 3.11; ESI-MS (m/z): 443.9 (M+, 100%) & 445.9 (M+2, 99%).

***(3-(2,3-dimethylphenyl)isoxazol-5-yl)methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C10):** Off white solid. M.P: 165-167 oC; IR (KBr, cm-1): νmax 3059 (C-H, Ar), 1737 (C=O, ester), 1655 (C=O, chromene), 1608 (C=N), 1230, 1127 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.90-7.94 (m, 1H, Ar-H), 7.80-7.84 (m, 1H, Ar-H), 7.58-7.62 (m, 2H, Ar-H), 7.42-7.49 (m, 1H, Ar-H), 7.33-7.36 (m, 1H, Ar-H), 7.13 (s, 1H, chromene-CH), 6.82 (s, 1H, Isoxazole-CH), 5.63 (s, 2H, O-CH2), 2.49 (s, 3H, Ar-CH3), 2.35 (s, 3H, Ar-CH3); 13C-NMR (100 MHz, CDCl3): δ 178.7 (C-4), 164.3 (-C=N), 162.3 (Isoxazole-C-O), 161.4 (CO2CH2-), 159.9 (d, *J* = 245.6 Hz, C-6), 153.1(C-2), 146.0 (C-8a), 138.2 (C-3’), 130.8 (C-4’), 130.1(C-1’), 127.0 (C-2’), 126.3 (C-5’), 124.5 (d, *J* = 9.2 Hz, C-4a ), 122.1(d, *J* = 29.3 Hz, C-7), 121.5 (d, *J* = 11.1 Hz, C-8), 120.3 (C-6’), 118.9 (C-3), 109.9 (d, *J* = 23.5 Hz, C-5), 100.0 (Isoxazole-CH), 58.8 (O-CH2-), 20.1(Ar-CH3), 16.4(Ar-CH3), :Anal. calcd. for C22H16FNO5: C, 67.17; H, 4.10; N, 3.56. Found: C, 67.10, H, 4.05; N, 3.50; ESI-MS (m/z): 394.1 (M+).

***(3-(3,5-dimethylphenyl)isoxazol-5-yl)methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C11):** Pale Yellow solid. M.P: 176-178 oC; IR (KBr, cm-1): νmax 3088 (C-H, Ar), 1737 (C=O, ester), 1655 (C=O, chromene), 1605 (C=N), 1230, 1132 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.80-7.86 (m, 1H, Ar-H), 7.60-7.66 (m, 1H, Ar-H), 7.44-7.49 (m, 1H, Ar-H), 7.35 (s, 2H, Ar-H), 7.14 (s, 1H, chromene-CH), 7.09 (s, 1H, Ar-H), 6.81 (s, 1H, Isoxazole-CH), 5.62 (s, 2H, O-CH2), 2.41 (s, 6H, 2xAr-CH3));13C-NMR (100 MHz, CDCl3): δ 178.8 (C-4), 166.3 (-C=N), 162.5 (Isoxazole-C-O), 161.4 (CO2CH2-), 160.0 (d, *J* = 245.7 Hz, C-6), 153.1(C-2), 146.1 (C-8a), 139.2 (C-3’, C-5’), 133.2 (C-1’), 131.0 (C-4’), 127.8 (C-2’, C-6’), 124.6 (d, *J* = 9.2 Hz, C-4a ), 122.1(d, *J* = 27.9 Hz, C-7), 121.5 (d, *J* = 10.8 Hz, C-8), 119.0 (C-3), 109.9 (d, *J* = 23.9 Hz, C-5), 100.1(Isoxazole-CH), 58.8 (O-CH2-), 21.3 (Ar-CH3): Anal. calcd. for C20H16FNO5: C, 67.17; H, 4.10; N, 3.56. Found: C, 67.11; H, 4.02; N, 3.50; ESI-MS (m/z): 394.1 (M+).

***[3-(naphthalen-1-yl)isoxazol-5-yl]methyl 6-fluoro-4-oxo-4H-chromene-2-carboxylate* (C12):**

Pale red solid. M.P: 190-192 oC; IR (KBr, cm-1): νmax 3069 (C-H, Ar), 1733 (C=O, ester), 1655 (C=O, chromene), 1605 (C=N), 1227, 1132 (C-O-C); 1H-NMR (400 MHz, CDCl3): δ 7.85-7.97 (m, 1H, Ar-H), 7.70-7.78 (m, 1H, Ar-H), 7.50-7.65 (m, 3H, Ar-H), 7.32-7.42 (m, 3H, Ar-H), 7.12-7.30 (m, 3H, Ar-H), 6.80 (s, 1H, Isoxazole-CH), 5.62 (s, 2H, O-CH2); 13C-NMR (100 MHz, CDCl3): δ 178.7 (C-4), 164.5 (-C=N), 162.0 (Isoxazole-C-O), 161.1 (CO2CH2-), 159.9 (d, *J* = 245.6 Hz, C-6), 153.2 (C-2), 146.2 (C-8a), 140.8 (C-1’), 134.2 (C-4a’), 133.4 (C-8a’), 128.8 128.7 (C-4’, C-5’), 127.7 (C-8’) 126.8 (C-6’), 126.6 (C-7’), 125.3 (C-3’), 124.6 (d, *J* = 9.2 Hz, C-4a ), 122.8 (C-2’), 122.1(d, *J* = 28.9 Hz, C-7), 121.6 (d, *J* = 11.0 Hz, C-8), 118.8 (C-3), 109.9 (d, *J* = 23.8 Hz, C-5), 99.9 (Isoxazole-CH), 58.8 (O-CH2-); Anal. calcd. for C24H14FNO5: C, 69.40; H, 3.40; N, 3.37. Found: C, 69.35; H, 3.42; N, 3.31; ESI-MS (m/z): 416.1 (M+).