



Supporting Material

Design, Synthesis, and Antiviral Activities of New Benzotriazole-Based Derivatives

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Supporting Material

Dose-response curves for 6 most active compounds

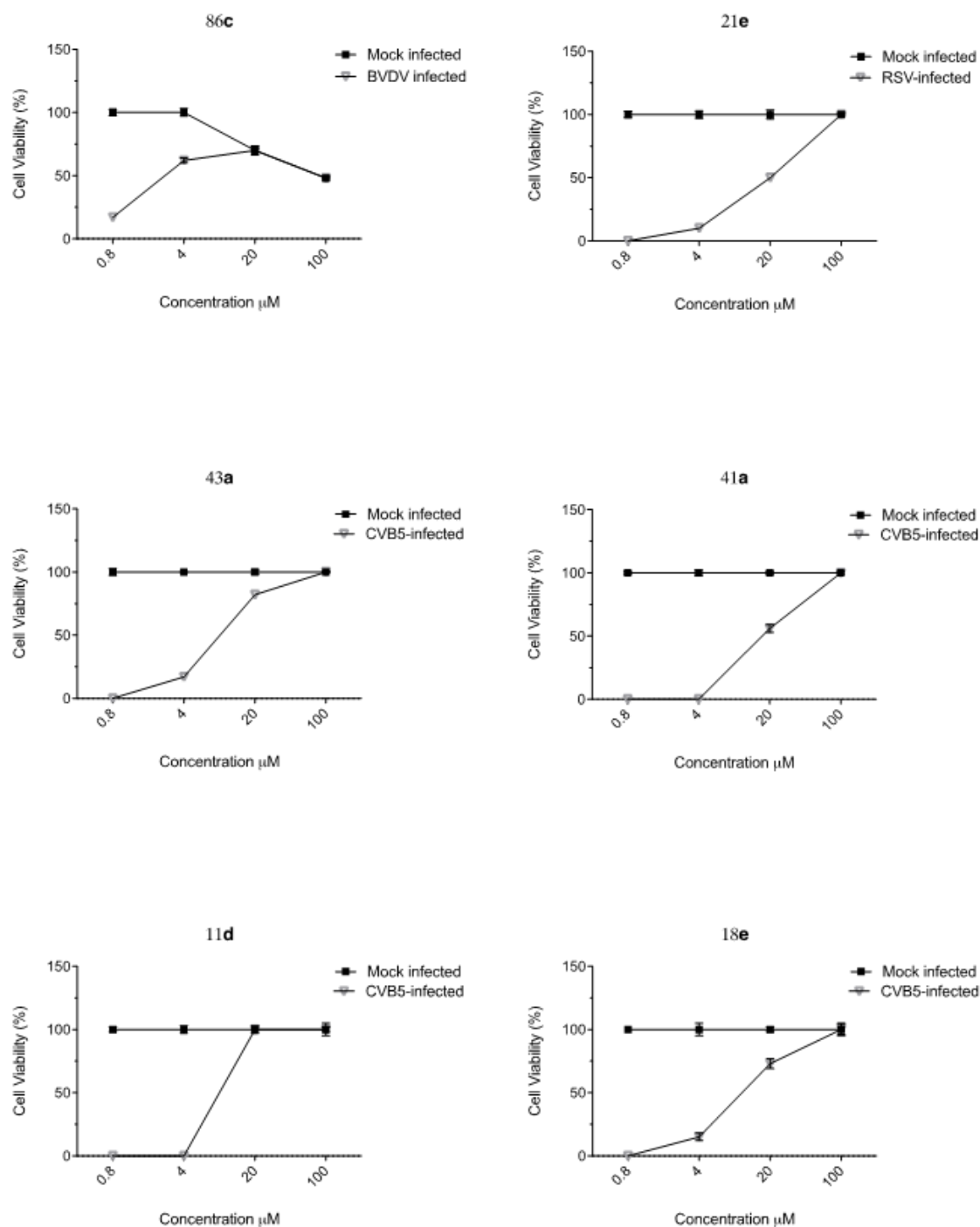


Figure S1. Cytotoxicity and broad-spectrum antiviral activity of selected benzotriazole derivatives (86c, 21e, 43a, 41a, 11d, 18e). The viability of mock-infected cells was estimated by MTT assay, three days after-infection. The number of live cells was ex-pressed as a percentage of mock-infected, untreated control cells. Data are expressed as means \pm SD of at least two independent measurements.

Experimental – chemical characterization

5,6-dichloro-2-(3-nitrobenzyl)-2H-benzo [d][1,2,3]triazole (3a).

Compound **3a** was obtained in 5% total yield; m.p.: 237–239 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.58; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 8.43 (2H, s, H-4,7), 8.34 (1H, s, H-2'), 8.24 (1H, d, J = 8.0 Hz, H-4'), 7.85 (1H, d, J = 7.6 Hz, H-6'), 7.70 (1H, t, J = 8.0 Hz, H-5'), 6.22 (2H, s, CH_2). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 142.9 (2C), 136.6 (2C), 136.5 (CH), 130.1 (CH), 129.9 (2C), 123.5 (CH), 123.4 (CH), 119.5 (2CH), 58.7 (CH_2). LC/MS m/z 323, 325 [$\text{M}+\text{H}$] $^+$.

5,6-dimethyl-2-(3-nitrobenzyl)-2H-benzo [d][1,2,3]triazole (3b)

Compound **3b** was obtained in 12% total yield; m.p.: 145–148 °C TLC (petroleum ether/ethyl acetate = 8.5/1.5) R_f : 0.40; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 10.59 (1H, s, NH), 8.35 (2H, d, J = 8.4 Hz, H-3'',5''), 8.15 (2H, d, J = 8.4 Hz, H-2'',6''), 7.77 (1H, d, J = 7.6 Hz, H-4'), 7.32 (1H, s, H-2'), 7.66 (2H, s, H-4,7), 7.15 (1H, d, J = 7.6 Hz, H-6'), 5.91 (2H, s, CH_2), 2.36 (6H, s, CH_3). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 163.9 (C=O), 149.1 (C), 143.3 (C), 140.4 (C), 139.0 (C), 136.6 (3C), 136.2 (C), 129.2 (C), 129.2 (2CH), 129.0 (CH), 123.9 (CH), 123.5 (CH), 120.2 (CH), 119.8 (CH), 116.2 (CH), 59.1 (CH_2), 20.3 (CH_3); LC/MS m/z 283 [$\text{M}+\text{H}$] $^+$.

5,6-dichloro-1-(3-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (4a)

Compound **4a** was obtained in 44% total yield; m.p.: 156–157 °C TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.46; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 8.50 (1H, s, H-4), 8.48 (1H, s, H-7), 8.30 (1H, s, H-2'), 8.17 (1H, d, J = 8.0 Hz, H-4'), 7.78 (1H, d, J = 7.8 Hz, H-6'), 7.65 (1H, t, J = 8.0 Hz, H-5'), 6.14 (2H, s, CH_2). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 143.1 (2C), 136.6 (2C), 135.7 (CH), 130.9 (CH), 130.1 (2C), 123.5 (CH), 123.4 (CH), 119.5 (2CH), 58.1 (CH_2). LC/MS m/z 323, 325 [$\text{M}+\text{H}$] $^+$.

5,6-dimethyl-1-(3-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (4b)

Compound **4b** was obtained in 40% total yield; m.p.: 130–132 °C; TLC (petroleum ether/ethyl acetate = 8.5/1.5) R_f : 0.16; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 8.15–8.24 (2H, m, H-4',6'), 7.80 (1H, 1, H-2'), 7.76–7.67 (3H, m, H-4,7,5') 6.10 (2H, s, CH_2), 2.34 (6H, s, 2 CH_3). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 149.0 (C), 144.5 (C), 138.3 (C), 137.8 (C), 134.6 (CH), 134.1 (C), 131.7 (C), 130.4 (CH), 122.6 (CH), 122.3 (CH), 116.2 (CH), 109.5 (CH), 49.6 (CH_2), 20.4 (CH_3), 19.8 (CH_3). LC/MS m/z 283 [$\text{M}+\text{H}$] $^+$.

3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)aniline (5b)

Compound **5b** was obtained in 93% total yield; m.p.: 140–144 °C; TLC (petroleum ether/ethyl acetate 6/4) R_f : 0.56; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 7.63 (2H, s, H-4,7), 6.95 (3H, t, H-5'), 6.45 (3H, m, H-2',4',6'), 5.68 (2H, s, CH_2), 5.13 (2H, s, NH_2), 2.34 (6H, s, 2 CH_3); $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 148.9 (C), 143.2 (2C), 136.4 (2C), 136.1 (C), 129.0 (CH), 115.8 (CH), 115.2 (CH), 113.6 (CH), 113.0 (CH), 112.6 (CH), 59.5 (CH_2), 23.2 (CH_3), 20.3 (CH_3). LC/MS m/z 253 [$\text{M}+\text{H}$] $^+$.

3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)aniline (6a)

Compound **6a** was obtained in 55% total yield; m.p. 161–162 °C; TLC: (petroleum ether/ethyl acetate 7/3) R_f : 0.29; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 8.49 (1H, s, H-4), 8.30 (1H, s, H-7), 6.97 (1H, t, J = 7.5 Hz, H-5'), 6.45–6.43 (2H, m, H-4',6'), 6.40 (1H, s, H-2'), 5.80 (2H, s, CH_2), 5.15 (2H, s, NH_2); $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 149.1 (C), 144.2 (C), 135.9 (C), 132.1 (C), 130.6 (C), 129.3 (CH), 127.1 (C), 120.6 (CH), 114.9 (CH), 113.7 (CH), 112.5 (CH), 112.5 (CH), 51.1 (CH_2). LC/MS: m/z 293, 295 [$\text{M}+\text{H}$] $^+$.

3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)aniline (6b)

Compound **6b** was obtained in 90% total yield; m.p. 146–149 °C; TLC (petroleum ether/ethyl acetate 6/4) R_f : 0.32; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 7.78 (1H, s, H-4), 7.52 (1H, s, H-7), 6.96 (3H, t, J = 8.0 Hz, H-5'), 6.43 (2H, m, H-4',6'), 6.37 (1H, s, H-2'), 5.71 (2H, s, CH_2), 5.10 (2H, s, NH_2), 2.34 (6H, s, 2 CH_3); $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 149.0 (C), 144.5 (C), 137.2 (C), 136.6 (C), 133.4 (C), 131.8 (C), 129.1 (C), 118.1 (C), 114.7 (C), 113.4 (C), 112.3 (C), 109.8 (C), 51.0 (C), 20.4 (C), 19.8 (C). LC/MS m/z 253 [$\text{M}+\text{H}$] $^+$.

5,6-dichloro-2-(4-nitrobenzyl)-2H-benzo [d][1,2,3]triazole (8a)

Compound **8a** was obtained in 14% total yield; m.p.: 146–148 °C; TLC (petroleum ether/ethyl acetate = 7.5/2.5) R_f : 0.58; $^1\text{H-NMR}$ (400 MHz, CDCl_3) δ : 8.35–8.23 (4H, m, H-3',5', H-7, H-4), 7.63 (2H, d, J = 8.4, H-2',6'), 5.51 (2H, s, CH_2); $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 146.8 (2C), 145.9 (C), 141.2 (C), 133.4 (2C), 129.9 (2CH), 127.2 (2CH), 123.8 (2CH), 61.3 (CH_2). LC/MS m/z 323, 325 [$\text{M}+\text{H}$] $^+$.

5,6-dimethyl-2-(4-nitrobenzyl)-2H-benzo [d][1,2,3]triazole (8b)

Compound **8b** was obtained in 37% total yield; m.p.: 140–142 °C; TLC (petroleum ether/ethyl acetate 8 / 2) R_f : 0.46; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 8.28 (2H, d, J = 8.6 Hz, H-3',5'), 7.76 (2H, d, J = 8.6 Hz, H-2',6'), 7.67 (1H, s, H-4,7), 5.55 (2H, s, CH_2), 2.35 (6H, s, 2 CH_3). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 147.2 (C), 146.9 (2C), 141.5 (C), 138.2 (2C), 127.9 (2CH), 125.5 (2CH), 116.5 (2CH), 55.4 (CH_2), 18.8 (2 CH_3); LC/MS m/z 283 [$\text{M}+\text{H}$] $^+$.

2-(4-nitrobenzyl)-2H-benzo [d][1,2,3]triazole (8c)

Compound **8c** was obtained in 20% total yield; m.p.: 118–122 °C; (petroleum ether/ethyl acetate 8/2) R_f : 0.39; $^1\text{H-NMR}$ (200 MHz, $\text{DMSO-}d_6$) δ : 8.37 (2H, d, J = 8.6 Hz, H-3',5'), 8.29–8.26 (4H, m, arom), 7.79 (2H, d, J = 8.8 Hz, H-2',6'),

5.56 (2H, s, CH₂); ¹³C-NMR (DMSO-*d*₆) δ: 145.6 (C), 144.9 (2C), 142.3 (C), 128.9 (2CH), 126.3 (2CH), 123.8 (2CH), 118.5 (2CH), 58.2 (CH₂). LC/MS *m/z* 255 [M+H]⁺.

5,6-difluoro-2-(4-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (8d)

Compound **8d** was obtained in 27% total yield; m.p.: 179–180 °C; TLC (petroleum ether/ethyl acetate 7/3) *R_f*: 0.63; ¹H-NMR (200 MHz, DMSO-*d*₆) δ: 8.23 (2H, d, *J* = 7.8 Hz, H-3', 5'), 8.10–7.81 (2H, m, H-4, 7), 7.56 (2H, d, *J* = 7.8 Hz, H-2', 6'), 6.16 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 149.5 (2C), 145.5 (C), 145.4 (C), 132.8 (C), 126.2 (C), 129.8 (2CH), 117.1 (2 CH), 115.1 (2CH), 54.7 (CH₂). LC/MS *m/z*: 291 [M+H]⁺.

4-fluoro-2-(4-nitrobenzyl)-2H-benzo [d][1,2,3]triazole (8e)

Compound **8e** was obtained in 3% total yield; mp: 136–139 °C; TLC (petroleum ether/ethyl acetate 8:2) *R_f*: 0.33; ¹H-NMR (400 MHz, DMSO-*d*₆) δ: 8.25 (2H, d, *J* = 8.4 Hz, H-3',5'), 7.80 (1H, d, *J* = 8.4 Hz, H-7), 7.64 (2H, d, *J* = 8.4 Hz, H-2',6'), 7.48–7.43 (1H, m, H-6), 7.29 (1H, t, H-5), 6.23 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 151.4 (C), 147.4 (C), 146.6 (C), 142.1 (C), 134.9 (C), 129.6 (2CH), 127.1 (CH), 123.9 (2CH), 114.5 (CH), 110.2 (CH), 58.8 (CH₂). LC/MS: *m/z* 273 [M+H]⁺.

5,6-dichloro-1-(4-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (9a)

Compound **9a** was obtained in 32% total yield; m.p.: 158–160 °C; TLC (petroleum ether/ethyl acetate 7.5/2.5) *R_f*: 0.42; ¹H-NMR (400 MHz, CDCl₃) δ: 8.21 (3H, d, *J* = 7.8 Hz, H-3',5', H-4), 7.88 (1H, s, H-7), 7.51 (2H, d, *J* = 8.6 Hz, H-2',6'), 6.03 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 145.9 (C), 145.3 (C), 142.5 (C), 133.8 (2C), 132.6 (C), 128.6 (2CH), 126.5 (2CH), 124.3 (2CH), 52.0 (CH₂). LC/MS *m/z* 323, 325 [M+H]⁺.

5,6-dimethyl-1-(4-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (9b)

Compound **9b** was obtained in 45% total yield; m.p. 143–145 °C; TLC (petroleum ether/ethyl acetate 8/2) *R_f*: 0.17; ¹H-NMR (200 MHz, DMSO-*d*₆) δ: 8.28 (2H, d, *J* = 8.8 Hz, H-3',5'), 7.82 (1H, s, H-4) 7.62 (1H, s, H-7), 7.48 (2H, d, *J* = 8.8 Hz, H-2',6'), 6.10 (2H, s, CH₂), 2.35 (6H, s, 2CH₃); ¹³C-NMR (DMSO-*d*₆) δ: 145.6 (C), 144.9 (C), 142.2 (C), 132.9 (C), 131.9 (2C), 127.9 (2CH), 118.5 (2CH), 116.5 (2CH), 52.1 (CH₂), 18.8 (2CH₃). LC/MS *m/z* 283 [M+H]⁺.

1-(4-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (9c) [34]

Compound **9c** was obtained in 44% total yield; m.p.: 126–128 °C; TLC (petroleum ether/ethyl acetate 8/2) *R_f*: 0.13; ¹H-NMR (200 MHz, DMSO-*d*₆) δ: 8.22 (2H, d, *J* = 8.4 Hz, H-3', 5'), 8.09 (1H, d, *J* = 8.2 Hz, H-4), 7.87 (1H, d, *J* = 8.2 Hz, H-7), 7.70–7.60 (1H, m, H arom), 7.54 (2H, d, *J* = 8.4 Hz, H-2',6'), 7.47–7.43 (1H, m, H arom), 6.19 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 145.6 (C), 144.9 (C), 142.3 (C), 132.9 (C), 128.9 (2CH), 126.3 (2CH), 123.8 (2CH), 118.5 (CH), 110.5 (CH), 52.2 (CH₂). LC/MS *m/z* 283 [M+H]⁺.

5,6-difluoro-1-(4-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (9d)

Compound **9d** was obtained in 73 % total yield; m.p.: 139–140 °C; TLC (petroleum ether/ethyl acetate 7/3) *R_f*: 0.37; ¹H-NMR (200 MHz, DMSO-*d*₆) δ: 8.30–8.14 (4H, m, H-4, 7, 3', 5'), 7.56 (2H, d, *J* = 8.8 Hz, H-2', 6'), 6.14 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 149.5 (2C), 145.5 (C), 144.9 (C), 142.3 (C), 132.8 (C), 128.9 (2CH), 123.8 (2CH), 117.1 (2 CH), 54.7 (CH₂). LC/MS *m/z*: 291 [M+H]⁺.

4-fluoro-1-(4-nitrobenzyl)-1H-benzo [d][1,2,3]triazole (9e)

Compound **9e** was obtained in 15% total yield; mp: 161–164 °C; TLC (petroleum ether/ethyl acetate 8:2) *R_f*: 0.10. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.22 (2H, d, *J* = 8.8 Hz, H-3',5'), 7.73 (1H, d, *J* = 8.4 Hz, H-7), 7.56 (2H, d, *J* = 8.8 Hz, H-2',6') + 1H, H-6), 7.26 (1H, t, H-5), 6.21 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 152.3 (C), 147.3 (C), 142.9 (C), 135.8 (C), 135.2 (C), 128.9 (CH), 128.9 (2CH), 123.8 (2CH), 108.8 (CH), 107.2 (CH), 50.3 (CH₂). LC/MS: *m/z* 273 [M+H]⁺.

7-fluoro-1-(4-nitrobenzyl)-1H-benzo[d][1,2,3]triazole(10e)

Compound **10e** was obtained in 13% total yield; mp: 155–158 °C; TLC (petroleum ether/ethyl acetate 8:2) *R_f*: 0.22. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.22 (2H, d, *J* = 8 Hz, H-3',5'), 7.95 (1H, d, *J* = 7.2 Hz, H-4), 7.48 (2H, d, *J* = 8 Hz, H-2',6'), 7.43–7.39 (2H, m, H-5,6), 6.20 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 148.8 (C), 148.3 (C), 146.5 (C), 143.3 (C), 128.4 (2CH), 125.2 (CH), 124.0 (2CH), 122.5 (C), 115.8 (CH), 112.6 (CH), 52.0 (CH₂). LC/MS: *m/z* 273 [M+H]⁺.

4-((5,6-dichloro-2H-benzo[d][1,2,3]triazol-2-yl)methyl)aniline (11a)

Compound **11a** was obtained in 10% total yield; m.p. 247–250 °C; TLC: (petroleum ether/ethyl acetate 7/3) *R_f*: 0.49; ¹H-NMR (400 MHz, DMSO-*d*₆) δ: 8.03 (2H, s, H-4,7), 7.10 (2H, d, *J* = 8.2 Hz, H-2',6'), 6.48 (2H, d, *J* = 8.4 Hz, H-3',5'), 5.74 (2H, s, CH₂), 5.26 (2H, s, NH₂). ¹³C-NMR (DMSO-*d*₆) δ: 145.9 (2C), 145.2 (C), 133.8 (2C), 129.0 (2CH), 126.3 (2CH), 125.0 (C), 114.9 (2CH), 58.7 (CH₂). LC/MS: *m/z* 293, 295 [M+H]⁺.

4-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)aniline (11b)

Compound **11b** was obtained in 27% total yield; m.p. 169–171 °C; TLC (petroleum ether/ethyl acetate 6/4) *R_f*: 0.45; ¹H-NMR (400 MHz, DMSO-*d*₆) δ: 7.62 (1H, s, H-4,7), 7.07 (2H, d, *J* = 8.2 Hz, H-2',6'), 6.50 (2H, d, *J* = 8.4 Hz, H-3',5'), 5.63 (2H, s, CH₂), 5.16 (2H, s, NH₂), 2.34 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 145.5 (2C), 145.4 (C), 136.8 (2C), 129.8 (2CH), 124.4 (C), 124.1 (2CH), 115.1 (2CH), 61.6 (CH₂), 18.8 (2CH₃). LC/MS *m/z* 253 [M+H]⁺.

4-((5,6-difluoro-2H-benzo[d][1,2,3]triazol-2-yl)methyl)aniline (11d)

Compound **11d** was obtained in 20% total yield; m.p.: 149–150 °C; TLC (petroleum ether/ethyl acetate 7/3); R_f : 0.34; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 8.04 (2H, t, H-4,7), 7.11 (2H, d, $J = 8.00$ Hz, H-2',6'), 6.52 (2H, d, $J = 8.4$ Hz, H-3',5'), 5.71 (2H, s, CH_2), 5.19 (2H, s, NH_2). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 149.5 (2C), 145.5 (2C), 145.4 (C), 129.8 (2CH), 124.4 (C), 117.1 (2CH), 115.1 (2CH), 61.6 (CH_2). LC/MS: m/z 261 $[\text{M}+\text{H}]^+$.

4-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)aniline (12a)

Compound **12a** was obtained in 30% total yield; m.p.: 203–206 °C; TLC (petroleum ether/ethyl acetate 7/3); R_f : 0.29; $^1\text{H-NMR}$ (400 MHz, CDCl_3) δ : 8.45 (1H, s, H-4), 8.32 (1H, s, H-7), 7.11 (2H, d, $J = 8.4$ Hz, H-2',6'), 6.51 (2H, d, $J = 8.4$ Hz, H-3',5'), 5.75 (2H, s, CH_2), 5.13 (2H, s, NH_2). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 145.7 (C), 144.9 (C), 133.8 (2C), 133.0 (C), 129.5 (2CH), 126.6 (2CH), 125.9 (C), 115.4 (2CH), 52.3 (CH_2). LC/MS: m/z 293, 295 $[\text{M}+\text{H}]^+$.

4-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)aniline (12b)

Compound **12b** was obtained in 88% total yield; m.p.: 184–186 °C; TLC (petroleum ether/ethyl acetate 6/4); R_f : 0.17; $^1\text{H-NMR}$ (200 MHz, $\text{DMSO-}d_6$) δ : 7.76 (1H, s, H-4), 7.57 (1H, s, H-7), 7.06 (2H, d, $J = 8.6$ Hz, H-2',6'), 6.48 (2H, d, $J = 8.6$ Hz, H-3',5'), 5.65 (2H, s, CH_2), 5.13 (2H, s, NH_2), 2.36 (6H, s, 2CH_3). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 149.2 (C), 145.5 (C), 132.5 (2C), 132.2 (C), 128.8 (C), 128.2 (2CH), 124.2 (2CH), 114.3 (2CH), 52.3 (CH_2), 18.8 (2 CH_3). LC/MS m/z 253 $[\text{M}+\text{H}]^+$.

4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)aniline (12c)

Compound **12c** was obtained in 78% total yield; m.p.: 151–153 °C; TLC (petroleum ether/ethyl acetate 4/6); R_f : 0.47; $^1\text{H-NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 8.03 (1H, d, $J = 8.4$ Hz, H-4), 7.81 (1H, d, $J = 8.4$ Hz, H-7), 7.50 (1H, t, H-5), 7.41 (1H, t, H-6), 7.07 (2H, d, $J = 8.2$ Hz, H-3',5'), 6.49 (2H, d, $J = 8.2$ Hz, H-2',6'), 5.74 (2H, s, CH_2), 5.15 (2H, s, NH_2). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 149.2 (C), 145.5 (C), 132.4 (C), 132.8 (C), 128.7 (2CH), 126.6 (2CH), 119.7 (CH), 114.6 (2CH), 110.3 (CH), 52.3 (CH_2). LC/MS m/z 225 $[\text{M}+\text{H}]^+$.

4-((5,6-difluoro-1H-benzo[d][1,2,3]Triazol-1-yl)methyl)aniline (12d)

Compound **12d** was obtained in 70% total yield; m.p.: 116–117 °C; TLC (petroleum ether/ethyl acetate 8/2); R_f : 0.14; $^1\text{H-NMR}$ (400 MHz, CDCl_3) δ : 8.20 (H, t, H-4), 8.07 (H, t, H-7), 7.11 (2H, d, $J = 8.6$ Hz, H-2', 6'), 6.51 (2H, d, $J = 8.6$ Hz, H-2', 5'), 5.71 (2H, s, CH_2), 5.18 (2H, s, NH_2). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 149.5 (2C), 145.5 (C), 145.4 (C), 132.8 (C), 129.8 (2CH), 126.2 (C), 117.1 (2CH), 115.1 (2CH), 54.7 (CH_2). LC/MS: m/z $[\text{M}+\text{H}]^+$.

4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)aniline (12e)

Compound **12e** was obtained in 43% total yield; mp 164–167 °C; TLC (dichloromethane/ethyl acetate 9.5/0.5) R_f : 0.17; $^1\text{H NMR}$ (400 MHz, CDCl_3) δ : 7.65 (1H, d, $J = 7.0$ Hz, H-7), 7.53–7.48 (1H, m, H-6), 7.20 (1H, t, H-5), 7.09 (2H, d, $J = 8.0$ Hz, H-3',5'), 6.51 (2H, d, $J = 8.0$ Hz, H-2'-6'), 5.77 (2H, s, CH_2), 5.16 (2H, s, NH_2). $^{13}\text{C-NMR}$ (400 MHz, CDCl_3) δ : 152.1 (C), 148.6 (C), 135.3 (C), 135.2 (C), 129.1 (2CH), 128.3 (CH), 122.0 (C), 113.8 (2CH), 108.4 (CH), 107.4 (CH), 51.5 (CH_2). LC/MS: m/z 243 $[\text{M}+\text{H}]^+$.

N-(4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)acetamide (15e)

Compound **15e** was obtained in 11% total yield; m.p.: 233–234 °C; TLC (dichloromethane/ethyl acetate 7/3): R_f : 0.37. $^1\text{H NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 9.97 (1H, br s, NH), 7.68 (1H, d, $J = 8.4$ Hz, H-7), 7.54 (2H, d, $J = 7.6$ Hz, H-3',5' and H-6), 7.30 (2H, d, $J = 7.6$ Hz, H-2',6'), 7.23 (1H, t, H-5), 5.94 (2H, s, CH_2), 2.01 (3H, s, CH_3). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 168.5 (C), 152.2 (C), 139.0 (C), 135.5 (C), 129.7 (C), 128.6 (2CH), 124.0 (CH), 119.2 (2CH), 110.6 (CH), 108.5 (CH), 107.3 (CH), 50.9 (CH_2), 23.8 (CH_3). LC/MS: m/z 285 $[\text{M}+\text{H}]^+$.

N-(4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)propionamide (16e)

Compound **16e** was obtained, in 78% total yield; mp: 244–246 °C. TLC (petroleum ether /ethyl acetate 7/3): R_f : 0.19. $^1\text{H NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 9.89 (1H, br s, NH), 7.91 (1H, d, $J = 8.8$ Hz, H-7), 7.68 (2H, d, $J = 8.4$ Hz, H-3',4'), 7.57–7.50 (1H, m, H-6), 7.37 (2H, d, $J = 8.4$ Hz, H-2',6'), 7.25–7.20 (1H, m, H-5), 5.93 (2H, s, CH_2), 2.29 (2H, d, CH_2), 1.033 (3H, t, CH_3). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 172.0 (C), 152.2 (C), 139.3 (C), 135.5 (C), 135.3 (C), 129.6 (C), 129.1 (3CH), 119.2 (2CH), 108.5 (CH), 107.4 (CH), 51.3 (CH_2), 29.4 (CH_2), 9.6 (CH_3). LC/MS: m/z 299 $[\text{M}+\text{H}]^+$.

N-(4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)butyramide (17e)

Compound **17e** was obtained, in 40% total yield; mp: 215–216 °C; TLC (petroleum ether /ethyl acetate 7/3): R_f : 0.16. $^1\text{H NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 9.91 (1H, br s, NH), 7.66 (1H, d, $J = 8.4$ Hz, H-5), 7.56–7.49 (3H, m, H-3',5' and 7'), 7.30 (2H, d, $J = 8.4$ Hz, H-2',6'), 7.22 (1H, dd, $J = 3.2$ e $J = 7.6$ Hz, H-6), 5.92 (2H, s, CH_2), 2.24 (2H, t, CH_2), 1.57 (2H, d, CH_2), 0.87 (3H, t, CH_3). $^{13}\text{C-NMR}$ ($\text{DMSO-}d_6$) δ : 171.5 (C), 152.1 (C), 139.1 (C), 139.0 (C), 135.4 (C), 129.7 (C), 128.6 (CH), 128.5 (2CH), 119.3 (2CH), 108.6 (CH), 107.3 (CH), 51.0 (CH_2), 18.5 (CH_2), 13.5 (CH_3). LC/MS: m/z 313 $[\text{M}+\text{H}]^+$.

N-(4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)benzamide (19e)

Compound **19e** was obtained, in 89% total yield; mp: 214–217 °C; TLC (dichloromethane/ethyl acetate 9/1): R_f : 0.59. $^1\text{H NMR}$ (400 MHz, $\text{DMSO-}d_6$) δ : 10.29 (1H, br s, NH), 7.96 (2H, d, $J = 7.2$ Hz, H-2',6"), 7.77 (2H, d, $J = 8$ Hz, H-3',5'), 7.71 (1H, d, $J = 8.4$ Hz, H-7), 7.58–7.50 (4H, m, H-3",4",5",6), 7.37 (2H, d, $J = 8$ Hz, H-2',6'), 7.23 (1H, t, H-5), 5.98

(2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 166.0 (C), 152.7 (C), 139.6 (C), 136.0 (C), 135.8 (C), 135.2 (C), 132.1 (CH), 130.9 (C), 129.0 (CH), 128.9 (3CH), 128.1 (2CH), 121.0 (2CH), 109.1 (CH), 108.9 (CH), 17.8 (CH), 51.5 (CH₂). LC/MS *m/z* 347 [M+H]⁺.

***N*-(4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methoxybenzamide (20e)**

Compound **20e** was obtained, in 94% total yield; mp: 266–268 °C; TLC (petroleum ether/ethyl acetate 6:4): *R_f*: 0.29. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.13 (1H, br s, NH), 7.93 (2H, d, *J* = 8.8 Hz, H-2'',6''), 7.75 (2H, d, *J* = 8 Hz, H-3',5'), 7.71 (1H, d, *J* = 8.4 Hz, H-7), 7.57–7.53 (1H, m, H-6), 7.36 (2H, d, *J* = 8.4 Hz, H-2',6'), 7.23 (1H, t, H-5), 7.05 (2H, d, *J* = 8.8 Hz, H-3'',5''), 5.97 (2H, s, CH₂), 3.83 (3H, s, OCH₃). ¹³C-NMR (DMSO-*d*₆) δ: 164.9 (C), 161.9 (C), 152.2 (C), 139.3 (C), 135.6 (C), 135.2 (C), 130.1 (C), 129.6 (2CH), 128.5 (CH), 128.3 (2CH), 126.7 (C), 120.5 (2CH), 113.6 (2CH), 108.5 (CH), 107.4 (CH), 55.4 (CH₃), 51.1 (CH₂). LC/MS *m/z* 377 [M+H]⁺.

***N*-(4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3,4,5-trimethoxybenzamide (21e)**

Compound **21e** was obtained, in 94% total yield; mp: 177–179 °C; TLC (dichloromethane/ethyl acetate 9:1): *R_f*: 0.22. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.16 (1H, br s, NH), 7.73–7.70 (3H, d, *J* = 8.8 Hz, H-7-2'',6''), 7.57–7.52 (1H, m, H-6), 7.36 (2H, d, *J* = 8.4 Hz, H-3',5'), 7.25–7.21 (3H, m, H-5, 2',6'), 5.99 (2H, s, CH₂), 3.86 (6H, s, 3,5-OCH₃), 3.73 (3H, s, OCH₃). ¹³C-NMR (DMSO-*d*₆) δ: 164.9 (C), 152.6 (C), 152.2 (C), 140.3 (C), 139.0 (C), 135.4 (C), 135.4 (C), 135.2 (C), 130.5 (C), 129.8 (C), 128.6 (CH), 128.5 (2CH), 120.8 (2CH), 108.6 (CH), 107.3 (CH), 105.3 (2CH), 60.1 (CH₃), 56.1 (2CH₃), 51.0 (CH₂). LC/MS *m/z* 437 [M+H]⁺.

***N*-(4-((4-fluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-nitrobenzamide (22e)**

Compound **22e** was obtained, in 91% total yield; mp: 272–274 °C; TLC (dichloromethane/ethyl acetate 9:1): *R_f*: 0.33. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.61 (1H, br s, NH), 8.36 (2H, d, *J* = 8.8 Hz, H-2'',6''), 8.16 (2H, d, *J* = 8.8 Hz, H-3'',5''), 7.76 (2H, d, *J* = 8.4 Hz, H-3',5'), 7.71 (1H, d, *J* = 8.4 Hz, H-7), 7.57–7.52 (1H, m, H-6), 7.39 (2H, d, *J* = 8.4 Hz, H-2',6'), 7.24 (1H, t, H-5), 6.00 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 163.9 (C), 152.2 (C), 149.2 (C), 140.4 (C), 138.6 (C), 135.5 (C), 135.2 (C), 131.0 (C), 129.2 (3CH), 128.5 (2CH), 123.5 (2CH), 120.7 (2CH), 108.6 (CH), 107.4 (CH), 51.0 (CH₂). LC/MS *m/z* 392 [M+H]⁺.

***N*-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)acetamide (23b)**

Compound **23b** was obtained, in 43% total yield; mp: 184–187 °C; TLC (petroleum ether/ethyl acetate 6:4): *R_f*: 0.13. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 9.94 (1H, s, NH), 7.65 (2H, s, H-4,7), 7.55 (1H, d, *J* = 8 Hz, H-4'), 7.49 (1H, s, H-2'), 7.27 (1H, t, *J* = 7.8 Hz, H-5'), 7.02 (1H, d, *J* = 7.6 Hz, H-6'), 5.85 (2H, s, CH₂), 2.35 (6H, s, 2CH₃), 1.99 (3H, s, CO-CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 168.3 (CO), 145.5 (2C), 138.4 (C), 136.8 (2C), 136.4 (C), 128.8 (CH), 122.6 (CH), 118.6 (CH), 118.2 (CH), 116.2 (2CH), 59.2 (CH₂), 23.9 (CO-CH₃), 20.3 (2CH₃). LC/MS *m/z* 295 [M+H]⁺, 317 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)propionamide (24b)**

Compound **24b** was obtained, in 80% total yield; mp: 178–182 °C; TLC (petroleum ether/ethyl acetate 6:4): *R_f*: 0.40. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 9.94 (1H, s, NH), 7.84 (2H, s, H-4,7), 7.65 (1H, d, *J* = 7.5 Hz, H-2'',6''), 7.55 (1H, s, H-2'), 7.30 (1H, t, *J* = 7.30 Hz, H-5'), 7.02 (1H, d, *J* = 7.0 Hz, H-4'), 6.85 (2H, d, *J* = 6.80 Hz, H-3'',5''), 6.57 (1H, d, *J* = 6.6 Hz, H-6'), 5.86 (2H, s, CH₂), 2.34 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 165.2 (CO), 154.9 (C), 140.2 (C), 137.3 (C), 136.3 (C), 133.4 (C), 131.7 (C), 128.8 (CH), 128.8 (2CH), 124.4 (C), 123.5 (CH), 119.8 (CH), 119.3 (CH), 118.1 (CH), 112.5 (CH), 111.2 (CH), 109.7 (CH), 50.9 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS *m/z* 309 [M+H]⁺, 332 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)-4-fluorobenzamide (25b)**

Compound **25b** was obtained, in 27% total yield; mp: 211–212 °C; TLC (petroleum ether/ethyl acetate = 7/3): *R_f*: 0.10. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.16 (1H, s, NH), 8.23 (1H, s, H-2'), 7.99 (1H, t, *J* = 8 Hz, H-5'), 7.65 (2H, s, H-4,7), 7.55 (2H, d, *J* = 7.5 Hz, H-2'',6''), 7.32 (3H, m, H-4', 3'', 5''), 7.05 (1H, d, *J* = 7.6 Hz, H-6'), 5.86 (2H, s, CH₂), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 166.2 (CO), 143.3 (2C), 138.5 (C), 136.5 (3C), 136.3 (C), 132.1 (CH), 132.0 (CH), 129.4 (CH), 123.3 (CH), 119.5 (CH), 118.8 (CH), 116.2 (2CH), 115.7 (CH), 115.5 (CH), 59.0 (CH₂), 20.30 (CH₃). LC/MS *m/z* 375 [M+H]⁺, 397 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)-4-chlorobenzamide (26b)**

Compound **26b** was obtained, in 56% total yield; mp: 246–247 °C; TLC (petroleum ether/ethyl acetate = 7/3): *R_f*: 0.50. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.33 (1H, s, NH), 7.95 (2H, d, *J* = 7.95 Hz, H-2'',6''), 7.75 (2H, m, H-2',4'), 7.66 (2H, s, H-4,7), 7.59 (2H, d, *J* = 7.6 Hz, H-3'',5''), 7.35 (1H, t, *J* = 7.35 Hz, H-5'), 7.12 (1H, d, *J* = 7.1, H-6'), 5.89 (2H, s, CH₂), 2.36 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 164.4 (CO), 143.3 (C), 139.3 (C), 137.7 (2C), 136.5 (C), 136.1 (C), 131.0 (2CH), 129.6 (2C), 129.6 (CH), 129.2 (2CH), 123.4 (CH), 119.9 (CH), 118.6 (CH), 116.2 (2CH), 59.1 (CH₂), 20.3 (2CH₃). LC/MS *m/z* 391 [M+H]⁺, 413 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)-4-bromobenzamide (27b)**

Compound **27b** was obtained, in 17% total yield; mp: 267–268 °C; TLC (petroleum ether/ethyl acetate = 7/3): *R_f*: 0.85. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.34 (1H, s, NH), 7.87 (2H, s, H-4,7), 7.74 (4H, s, H-2'',3'',5'',6''), 7.66 (2H, s,

H-2',4'), 7.35 (1H, s, H-5'), 7.13 (1H, s, H-6'), 5.89 (2H, s, CH₂), 2.35 (6H, s, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 164.5 (CO), 143.3 (C), 139.3 (C), 136.8 (2C), 136.4 (C), 136.1 (C), 133.8 (C), 131.3 (2CH), 129.8 (2CH), 128.9 (CH), 125.4 (C), 123.6 (CH), 120.1 (CH), 119.7 (CH), 116.2 (CH), 59.2 (CH₂), 20.3 (2CH₃). LC/MS 300 *m/z* 436 [M+H]⁺, 458 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)-4-trifluoromethyl benzamide (28b)**

Compound **28b** was obtained, in 18% total yield; mp: 237–239 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f: 0.64. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.49 (1H, s, NH), 8.11 (2H, d, *J* = 8.1 Hz, H-2'',6''), 7.89 (2H, d, *J* = 7.95 Hz, H-3'',5''), 7.79–7.74 (3H, m, H-2',4'), 7.66 (2H, s, H-4,7), 7.37 (1H, t, *J* = 7.3 Hz, H-5'), 7.14 (1H, d, *J* = 7.1 Hz, H-6'), 5.90 (2H, s, CH₂), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 164.4 (CO), 143.3 (2C), 139.1 (2C), 138.6 (C), 136.6 (2C), 136.1 (C), 131.5 (CF₃), 129.0 (CH), 128.6 (2CH), 125.3 (2CH), 123.7 (CH), 122.5 (CH), 120.2 (CH), 116.2 (2CH), 59.2 (CH₂), 20.3 (CH₃). LC/MS *m/z* 425 [M+H]⁺.

***N*-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)-4-nitrobenzamide (29b)**

Compound **29b** was obtained, in 43% total yield; mp: 184–187 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f: 0.13. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.59 (1H, s, NH), 8.35 (2H, d, *J* = 8.4 Hz, H-2'',6''), 8.15 (2H, d, *J* = 8.4 Hz, H-3'',5''), 7.77 (1H, d, *J* = 7.6 Hz, H-4'), 7.73 (1H, s, H-2'), 7.66 (2H, s, H-4,7), 7.38 (1H, t, *J* = 7.8 Hz, H-5'), 5.91 (2H, s, CH₂), 2.36 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 163.9 (CO), 149.1 (C), 143.3 (C), 140.4 (C), 139.0 (C), 136.6 (3C), 136.2 (C), 129.2 (2CH), 129.0 (CH), 123.9 (CH), 123.5 (2CH), 120.2 (CH), 119.8 (CH), 116.2 (2CH), 59.1 (CH₂), 20.3 (CH₃). LC/MS *m/z* 402 [M+H]⁺, 424 [M+Na]⁺.

1-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)-3-ethylurea (30b)

Compound **30b** was obtained, in 32% total yield; mp: 218–219 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f: 0.15. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.45 (1H, s, NH), 7.65 (2H, s, H-4,7), 7.34 (1H, d, *J* = 8.4 Hz, H-4'), 7.32 (1H, s, H-2'), 7.18 (1H, t, H-5'), 6.86 (1H, d, *J* = 7.2 Hz, H-6'), 6.02 (1H, t, NH), 5.81 (2H, s, CH₂), 3.07 (2H, q, CH₂), 2.35 (6H, s, 2CH₃), 1.02 (3H, t, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 154.9 (CO), 143.3 (C), 140.9 (C), 136.5 (2C), 136.0 (2C), 128.9 (CH), 120.5 (CH), 117.2 (CH), 116.8 (CH), 116.2 (2CH), 59.3 (CH₂), 33.9 (CH₂), 20.3 (2CH₃), 15.4 (CH₃). LC/MS *m/z*: 324 [M+H]⁺.

1-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)-3-propylurea (31b)

Compound **31b** was obtained, in 48% total yield; mp: 204–206 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f: 0.21. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.44 (1H, s, NH), 7.65 (2H, s, H-4,7), 7.34 (1H, d, *J* = 8.0 Hz, H-4'), 7.31 (1H, s, H-2'), 7.18 (1H, t, H-5'), 6.86 (1H, d, *J* = 7.6 Hz, H-6'), 6.06 (1H, t, NH), 5.81 (2H, s, CH₂), 3.00 (2H, q, CH₂-NH), 2.35 (6H, s, 2CH₃), 1.41–1.35 (2H, m, CH₂), 0.87–0.82 (3H, m, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 155.0 (CO), 143.3 (C), 140.9 (C), 136.5 (2C), 136.0 (2C), 128.9 (CH), 120.5 (CH), 117.5 (CH), 117.2 (CH), 116.2 (2CH), 59.3 (CH₂), 40.8 (CH₂), 22.9 (CH₂), 20.3 (2CH₃), 11.3 (CH₃). LC/MS *m/z*: 338 [M+H]⁺.

1-butyl-3-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)urea (32b)

Compound **32b** was obtained, in 10% total yield; mp: 288–289 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f: 0.35. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.65 (1H, s, NH), 7.66 (2H, s, H-4,7), 7.37 (1H, s, H-2'), 7.38 (1H, d, *J* = 8 Hz, H-4'), 7.20 (1H, t, H-5'), 6.94 (1H, d, *J* = 7.6 Hz, H-6'), 6.04 (1H, t, NH), 5.81 (2H, s, CH₂), 3.04 (2H, q, CH₂), 1.38–1.27 (6H, m, 2CH₂), 0.87 (3H, t, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 155.0 (CO), 143.3 (C), 140.9 (C), 139.9 (C), 136.5 (C), 136.2 (2C), 129.1 (CH), 121.5 (CH), 117.8 (CH), 117.5 (CH), 116.2 (2CH), 59.2 (2CH₂), 31.8 (CH₂), 20.3 (3CH₃), 19.5 (CH₂). LC/MS *m/z*: 352 [M+H]⁺.

1-cyclopentyl-3-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)urea (33b)

Compound **33b** was obtained, in 33% total yield; mp: 298–299 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f: 0.46. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.28 (1H, s, NH), 7.65 (2H, s, H-4,7), 7.38 (1H, d, *J* = 7.6 Hz, H-4'), 7.19 (1H, t, H-5'), 7.03 (1H, s, H-2'), 6.86 (1H, d, *J* = 6.8 Hz, H-6'), 6.08 (1H, d, *J* = 6.0 Hz, NH), 5.81 (2H, s, CH₂), 3.89 (1H, s, CH), 2.36 (6H, s, 2CH₃), 1.88–1.75 (2H, m, CH₂), 1.65–1.45 (4H, m, 2CH₂), 1.35–1.25 (2H, m, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 155.1 (CO), 143.7 (C), 141.3 (C), 140.3 (C), 137.0 (2C), 136.5 (C), 129.6 (CH), 129.4 (CH), 121.0 (CH), 117.6 (CH), 117.2 (CH), 116.7 (2CH), 59.7 (CH₂), 33.2 (2CH₂), 23.6 (2CH₂), 20.8 (2CH₃). LC/MS *m/z*: 364 [M+H]⁺.

1-cyclohexyl-3-(3-((5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)methyl)phenyl)urea (34b)

Compound **34b** was obtained, in 73% total yield; mp: 299–300 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f: 0.26. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.33 (1H, s, NH), 7.65 (2H, s, H-4,7), 7.32 (2H, d, *J* = 8.4 Hz, H-2,4'), 7.29 (1H, s, H-2'), 7.19 (1H, t, H-5'), 6.86 (1H, d, *J* = 7.2 Hz, H-6'), 5.99 (1H, d, *J* = 7.6 Hz, NH-CH), 5.81 (1H, s, CH₂), 2.36 (6H, s, 2CH₃), 1.80–1.46 (4H, m, 2CH₂), 1.35–1.05 (6H, m, 3CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 154.2 (CO), 143.2 (C), 140.8 (C), 136.5 (2C), 136.0 (2C), 128.9 (CH), 120.5 (CH), 117.9 (CH), 117.2 (CH), 116.7 (CH), 116.2 (2CH), 59.3 (CH₂), 47.5 (CH), 33.3 (CH₂), 25.2 (2CH₂), 24.3 (2CH₂), 20.3 (2CH₃). LC/MS *m/z*: 378 [M+H]⁺.

***N*-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)acetamide (35a)**

Compound **35** was obtained, in 42% total yield; mp: 196–196 °C; TLC (petroleum ether /ethyl acetate 7:3): R_f : 0.09. ^1H NMR (400 MHz, DMSO- d_6) δ : 9.93 (1H, s, NH), 8.49 (1H, s, H-4), 8.35 (1H, s, H-7), 7.55 (1H, d, J = 8.0 Hz, H-4'), 7.46 (1H, s, H-2'), 7.28 (1H, t, J = 7.8 Hz, H-5'), 7.05 (1H, d, J = 7.6 Hz, H-6'), 5.97 (2H, s, CH₂), 1.99 (3H, s, CH₃). ^{13}C -NMR (DMSO- d_6): 168.3 (CO), 144.2 (C), 139.7 (C), 135.9 (CH), 132.1 (C), 130.8 (C), 129.2 (CH), 127.2 (C), 122.3 (CH), 120.6 (CH), 118.7 (C), 117.8 (CH), 112.5 (CH), 51.1 (CH₂), 23.9 (2CH₃). LC/MS m/z 335, 337 [M+H]⁺.

***N*-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)propionamide (36a)**

Compound **36** was obtained, in 51% total yield; mp: 145–146 °C; TLC (petroleum ether /ethyl acetate 7:3): R_f : 0.21. ^1H NMR (400 MHz, DMSO- d_6) δ : 9.86 (1H, s, NH), 8.49 (1H, s, H-2'), 8.35 (1H, s, H-4), 7.57 (1H, t, J = 8 Hz, H-4'), 7.49 (1H, s, H-7), 7.28 (1H, t, J = 7.8 Hz, H-5'), 7.05 (1H, d, J = 7.2 Hz, H-6'), 5.96 (2H, s, CH₂), 2.29–2.24 (2H, m, CH₂-CH₃), 1.04 (3H, t, J = 7.4 Hz, CH₃-CH₂). ^{13}C -NMR (DMSO- d_6): 172.0 (CO), 144.2 (C), 139.8 (C), 135.9 (CH), 132.1 (C), 130.8 (C), 129.1 (CH), 127.2 (C), 122.2 (CH), 120.6 (CH), 118.7 (C), 117.9 (CH), 112.5 (CH), 51.1 (CH₂), 29.4 (CH₂), 9.5 (CH₃). LC/MS m/z 349, 351 [M+H]⁺.

***N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)acetamide (37b)**

Compound **37b** was obtained, in 66% total yield; mp: 198–200 °C; TLC (petroleum ether /ethyl acetate 6:4): R_f : 0.10. ^1H NMR (400 MHz, DMSO- d_6) δ : 9.91 (1H, s, NH), 7.80 (1H, s, H-4), 7.53 (3H, m, H-2,2',4'), 7.40 (1H, s, H-7), 7.26 (1H, t, J = 8 Hz, H-5'), 6.98 (1H, d, J = 7.6 Hz, H-6'), 5.84 (2H, s, CH₂), 2.35 (6H, s, 2CH₃), 1.98 (3H, s, CH₃CO). ^{13}C -NMR (DMSO- d_6) δ : 168.3 (CO), 144.5 (C), 139.7 (C), 137.3 (C), 136.6 (C), 133.5 (C), 131.7 (C), 129.0 (CH), 122.1 (CH), 118.5 (CH), 118.1 (CH), 117.7 (CH), 109.7 (CH), 50.7 (CH₂), 23.9 (CH₃), 20.1 (2CH₃). LC/MS m/z 295 [M+H]⁺, 317 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)propionamide (38b)**

Compound **38b** was obtained, in 25% total yield; mp: 155–157 °C; TLC (petroleum ether /ethyl acetate 6:4): R_f : 0.25. ^1H NMR (400 MHz, DMSO- d_6) δ : 9.8 (1H, s, NH), 7.79 (1H, s, H-4), 7.55 (2H, m, H-4',2'), 7.44 (1H, s, H-7), 7.27 (1H, t, J = 7.8 Hz, H-5'), 6.98 (1H, d, J = 7.6 Hz, H-6'), 5.86 (2H, s, CH₂), 2.35 (6H, s, 2CH₃), 2.26 (2H, q, J = 7.4 Hz, CH₂-CH₃), 1.02 (3H, t, J = 7.8 Hz, CH₃-CH₂). ^{13}C -NMR (DMSO- d_6): 172.0 (CO), 144.6 (C), 139.7 (C), 137.3 (C), 136.5 (C), 133.4 (C), 131.7 (C), 129.0 (CH), 122.5 (CH), 118.5 (CH), 118.1 (CH), 118.0 (CH), 117.7 (CH), 50.8 (CH₂), 29.4 (CH₂), 20.4 (CH₃), 20.6 (CH₃), 10.8 (CH₃-CH₂). LC/MS m/z 309 [M+H]⁺, 331 [M+Na]⁺.

***N*-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methylbenzamide (39a)**

Compound **39a** was obtained, in 41% total yield; mp: 199–200 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.50. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.17 (1H, s, NH), 8.51 (1H, s, H-4), 8.39 (1H, s, H-7), 7.83 (2H, d, J = 7.6 Hz, H-2'',6''), 7.75 (1H, d, J = 8 Hz, H-4'), 7.71 (1H, s, H-2'), 7.36 (1H, t, J = 8 Hz, H-5'), 7.32 (2H, d, J = 8 Hz, H-3'',5''), 7.13 (1H, d, J = 7.6 Hz, H-6'), 6.00 (2H, s, CH₂), 2.38 (3H, s, CH₃). ^{13}C -NMR (DMSO- d_6): 165.4 (CO), 144.3 (C), 141.6 (C), 139.7 (C), 135.8 (CH), 132.1 (C), 131.8 (C), 130.8 (C), 129.1 (CH), 128.8 (2CH), 127.7 (2CH), 127.2 (C), 122.9 (C), 120.6 (CH), 120.1 (CH), 119.3 (CH), 112.5 (CH), 51.2 (CH₂), 21.0 (CH₃). LC/MS m/z 410 [M+H]⁺, 423 [M+Na]⁺.

***N*-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methoxybenzamide (40a)**

Compound **40a** was obtained, in 21% total yield; mp: 221–223 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.25. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.10 (1H, s, NH), 8.52 (1H, s, H-4), 8.39 (1H, s, H-7), 7.92 (2H, d, J = 8.4 Hz, H-2'',6''), 7.74 (1H, d, J = 8.4 Hz, H-4'), 7.71 (1H, s, H-2'), 7.35 (1H, t, J = 8.0 Hz, H-5'), 7.12 (1H, d, J = 7.2 Hz, H-6'), 7.06 (2H, d, J = 8.4 Hz, H-3'',5''), 6.00 (2H, s, CH₂), 3.83 (3H, s, OCH₃). ^{13}C -NMR (DMSO- d_6) δ : 164.9 (CO), 161.9 (C), 144.3 (C), 139.8 (C), 135.8 (CH), 132.1 (C), 130.8 (C), 129.6 (2CH), 129.0 (CH), 127.2 (C), 126.7 (C), 122.8 (C), 120.6 (CH), 120.1 (CH), 119.3 (CH), 113.5 (2CH), 112.5 (CH), 55.4 (CH₃), 51.2 (CH₂). LC/MS m/z 426, [M+H]⁺.

***N*-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3,4,5-trimethoxybenzamide (41a)**

Compound **41a** was obtained, in 22% total yield; mp: 142–144 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.15. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.15 (1H, s, NH), 8.52 (1H, s, H-4), 8.39 (1H, s, H-7), 7.70 (2H, s, H-2',4'), 7.37 (1H, t, J = 8 Hz, H-5'), 7.23 (2H, s, H-2'',6''), 7.15 (1H, d, J = 7.2 Hz, H-6'), 6.00 (2H, s, CH₂), 3.86 (6H, s, 2OCH₃), 3.73 (3H, s, OCH₃). ^{13}C -NMR (DMSO- d_6) δ : 165.0 (CO), 152.6 (2CH), 144.3 (C), 140.3 (C), 139.5 (C), 135.8 (C), 132.0 (C), 130.8 (C), 129.8 (C), 129.1 (CH), 127.3 (C), 123.2 (C), 120.6 (CH), 120.4 (C), 119.7 (CH), 112.5 (CH), 105.3 (2CH), 60.1 (OCH₃), 56.1 (2OCH₃), 51.2 (CH₂). LC/MS m/z 487, 489 [M+H]⁺.

***N*-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-fluorobenzamide (42a)**

Compound **42a** was obtained, in 94% total yield; mp: 184–186 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.35. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.28 (1H, s, NH), 8.52 (1H, s, H-4), 8.39 (1H, s, H-7), 7.99 (2H, d, J = 8 Hz, H-2'',6''), 7.74 (1H, d, J = 8.4 Hz, H-4'), 7.69 (1H, s, H-2'), 7.38–7.33 (3H, m, H-3'',5'',5'), 7.15 (1H, d, J = 7.6 Hz, H-6'), 6.00 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6): 164.5 (CO), 164.1 (C), 144.3 (C), 139.5 (C), 135.9 (C), 132.1 (C), 131.2 (C), 130.8 (C), 130.4 (CH), 130.3 (CH), 129.1 (CH), 127.2 (C), 123.1 (CH), 120.6 (CH), 120.1 (CH), 119.3 (CH), 115.4 (CH), 115.2 (CH), 112.5 (CH), 51.2 (CH₂). LC/MS m/z 415, 417 [M+H]⁺.

***N*-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-bromobenzamide (44a)**

Compound **44a** was obtained, in 23% total yield; mp: 221–223 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.46. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 10.32 (1H, s, NH), 8.51 (1H, s, H-4), 8.39 (1H, s, H-7), 7.87 (2H, d, J = 8.4 Hz, H-2'', 6''), 7.8–7.0 (3H, m, H-4', 3'', 5''), 7.72 (1H, s, H-2'), 7.37 (1H, t, J = 8 Hz, H-5'), 7.16 (1H, d, J = 7.6 Hz, H-6'), 6.00 (2H, s, CH_2). ^{13}C -NMR ($\text{DMSO}-d_6$): 164.6 (CO), 144.3 (C), 139.4 (C), 135.9 (CH), 133.8 (C), 132.1 (C), 131.4 (2CH), 130.8 (C), 129.8 (2CH), 129.1 (CH), 127.2 (C), 125.4 (C), 123.2 (C), 120.6 (CH), 120.1 (CH), 119.3 (CH), 112.5 (CH), 51.1 (CH_2). LC/MS m/z 477, 475 $[\text{M}+\text{H}]^+$.

4-cyano-N-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)benzamide (45a)

Compound **45a** was obtained, in 24% total yield; mp: 167–169 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.37. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 10.48 (1H, s, NH), 8.51 (1H, s, H-4), 8.39 (1H, s, H-7), 8.06 (2H, d, J = 8 Hz, H-2'', 6''), 8.0 (2H, d, J = 8.4 Hz, H-3'', 5''), 7.75 (1H, d, J = 8.0 Hz, H-4'), 7.69 (1H, s, H-2'), 7.38 (1H, t, J = 7.8 Hz, H-5'), 7.18 (1H, d, J = 7.6 Hz, H-6'), 6.02 (2H, s, CH_2). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 164.2 (CO), 144.3 (C), 139.2 (C), 138.7 (C), 136.0 (C), 132.4 (2CH), 132.1 (C), 130.8 (C), 129.2 (CH), 128.5 (2CH), 127.2 (C), 123.5 (CH), 120.6 (CH), 120.2 (CH), 119.3 (CH), 118.3 ($\text{C}\equiv\text{N}$), 113.9 (C), 112.5 (CH), 51.1 (CH_2). LC/MS m/z 422, 424 $[\text{M}+\text{H}]^+$.

N-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-(trifluoromethyl)benzamide (46a)

Compound **46a** was obtained, in 44% total yield; mp: 211–213 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.67. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 10.47 (1H, s, NH), 8.52 (1H, s, H-4), 8.39 (1H, s, H-7), 8.11 (2H, d, J = 7.6 Hz, H-2'', 6''), 7.90 (2H, d, J = 8 Hz, H-3'', 5''), 7.76 (1H, d, J = 8 Hz, H-4'), 7.69 (1H, d, H-2'), 7.39 (1H, t, J = 7.8 Hz, H-5'), 7.17 (1H, d, J = 6.8 Hz, H-6'), 6.02 (2H, s, CH_2). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 164.7 (CO), 145.7 (C), 139.1 (C), 137.8 (C), 137.5 (C), 135.9 (C), 133.2 (C), 131.4 (2C), 130.4 (CH), 130.5 (CH), 127.9 (CH), 127.2 (C), 123.8 (CH), 120.6 (CH), 120.3 (CH), 119.3 (CH), 115.4 (CH), 115.2 (CH), 113.0 (CH), 51.2 (CH_2). LC/MS m/z 465, 467 $[\text{M}+\text{H}]^+$.

N-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-nitrobenzamide (47a)

Compound **47a** was obtained, in 14% total yield; mp: 217–218 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.29. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 10.57 (1H, s, NH), 8.52 (1H, s, H-4), 8.40 (1H, s, H-7), 8.35 (2H, d, J = 8.8 Hz, H-3'', 5''), 8.14 (1H, d, J = 8.4 Hz, H-2'', 6''), 7.77 (1H, s, H-4'), 7.69 (1H, s, H-2'), 7.40 (1H, t, J = 7.8 Hz, H-5'), 7.19 (1H, d, J = 7.6 Hz, H-6'), 6.02 (2H, s, CH_2). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 164.0 (CO), 149.2 (C), 144.3 (C), 140.4 (C), 139.2 (C), 136.0 (C), 132.1 (C), 130.8 (C), 129.2 (CH), 129.2 (2CH), 127.3 (C), 123.9 (CH), 123.5 (2CH), 120.7 (CH), 120.2 (CH), 119.4 (CH), 112.5 (CH), 51.1 (CH_2). LC/MS m/z 442, 444 $[\text{M}+\text{H}]^+$.

4-amino-N-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)benzamide (48a)

This compound was obtained starting from compound **47a** (7.43 mmol) in 50 ml of ethanol and 0.88 mL of methylhydrazine. It was heated in autoclave for 24h at 100 °C. In the end, the mother was evaporated in vacuo and the crude residue is triturated with petrol ether to obtain compound **48**. The crude product was not further purified.

Compound **48a** was obtained, in 66% total yield; mp: 101–102 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.18. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.77 (1H, s, NH), 8.50 (1H, s, H-4), 8.37 (1H, s, H-7), 7.73–7.66 (4H, m, H-6', 2', 2'', 6''), 7.31 (1H, t, J = 7.8 Hz, H-5'), 7.06 (1H, d, J = 7.2 Hz, H-4'), 6.58 (2H, d, J = 8 Hz, H-3'', 5''), 5.98 (2H, s, CH_2), 5.76 (2H, s, NH_2). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 165.3 (CO), 152.2 (C), 144.3 (C), 140.2 (C), 135.7 (C), 132.1 (C), 130.7 (C), 129.3 (2CH), 128.9 (CH), 127.2 (C), 122.3 (CH), 120.8 (C), 120.6 (CH), 119.8 (CH), 119.1 (CH), 112.5 (CH), 112.5 (2CH), 51.3 (CH_2). LC/MS m/z 412, 414 $[\text{M}+\text{H}]^+$.

N-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methylbenzamide (49b)

Compound **49b** was obtained, in 57% total yield; mp: 211–212 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.27. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 10.16 (1H, s, NH), 7.82 (3H, m, H-2'', 6'', 4), 7.3 (2H, d, J = 8.4 Hz, H-4'), 7.7 (1H, s, H-7), 7.58 (1H, s, H-2'), 7.32 (3H, m, H-3'', 5'', 5'), 7.05 (1H, J = 7.2 Hz, 6'), 5.89 (2H, s, CH_2). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 165.3 (CO), 144.6 (C), 141.6 (C), 139.6 (C), 137.3 (C), 136.5 (C), 133.5 (C), 131.7 (C), 131.7 (C), 128.9 (CH), 128.8 (CH), 127.7 (CH), 122.7 (CH), 119.9 (CH), 119.2 (CH), 118.1 (CH), 109.7 (CH), 50.8 (CH_2), 21.0 (CH_3), 20.4 (CH_3), 19.8 (CH_3). LC/MS m/z 371 $[\text{M}+\text{H}]^+$.

N-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methoxybenzamide (50b)

Compound **50b** was obtained, in 17% total yield; mp: 203–206 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.36. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 10.09 (1H, s, NH), 7.91 (2H, d, J = 7.9 Hz, H-2'', 6''), 7.80 (1H, s, H-4'), 7.72 (1H, d, J = 7.7 Hz, H-4'), 7.68 (1H, s, H-2'), 7.59 (1H, s, H-7), 7.32 (1H, t, J = 7.3 Hz, H-5'), 7.04 (3H, m, H-6', 3'', 5''), 5.89 (2H, s, CH_2). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 164.9 (CO), 161.9 (C), 144.6 (C), 139.7 (C), 137.3 (C), 136.4 (C), 133.5 (C), 131.7 (C), 129.6 (CH), 129.3 (CH), 128.9 (CH), 126.7 (C), 122.6 (CH), 119.9 (CH), 119.2 (CH), 118.1 (CH), 113.7 (CH), 113.5 (CH), 109.7 (CH), 55.4 (OCH_3), 50.8 (CH_2), 20.1 (2 CH_3). LC/MS m/z 387 $[\text{M}+\text{H}]^+$, 409 $[\text{M}+\text{Na}]^+$.

N-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3,4,5-trimethoxybenzamide (51b)

Compound **51b** was obtained, in 20% total yield; mp: 160–162 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.21. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 10.13 (NH), 7.80 (1H, s, H-4), 7.67 (2H, m, H-4', 2'), 7.59 (1H, s, H-7), 7.35 (3H,

t, $J = 8.0$ Hz, H-5'), 7.24 (2H, s, H-2'',6''), 7.08 (1H, d, $J = 7.2$, H-6') 5.9 (2H, s, CH₂) 3.85 (6H, s, 2OCH₃), 3.72 (3H, s, OCH₃), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 165.3 (CO), 152.7 (C), 152.6 (C), 144.6 (C), 140.4 (C), 139.4 (C), 137.4 (C), 136.5 (C), 133.5 (C), 131.7 (C), 129.8 (C), 129.0 (CH), 127.6 (CH), 123.0 (CH), 120.2 (CH), 119.5 (CH), 118.1 (CH), 109.7 (CH), 105.3 (CH), 105.0 (CH), 60.1 (OCH₃), 56.1 (OCH₃), 56.0 (OCH₃), 50.8 (CH₂), 20.1 (CH₃). LC/MS m/z 447 [M+H]⁺, 469 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-fluorobenzamide (52b)**

Compound **52b** was obtained, in 98% total yield; mp: 143–147 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.22. ¹H NMR (400 MHz, DMSO-*d*₆) δ : 10.26 (1H, s, NH), 7.99 (2H, t, H-3'',5''), 7.72 (1H, d, $J = 7.72$ Hz, H-4'), 7.66 (1H, s, H-7), 7.58 (1H, s, H-2'), 7.34 (3H, m, H-2'',6'',5'), 7.08 (1H, d, $J = 7.08$, H-6'), 5.90 (2H, s, 2CH₂), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 164.1 (CO), 144.6 (C), 139.5 (C), 137.4 (C), 136.5 (C), 133.5 (C), 131.7 (C), 131.2 (C), 130.4 (2CH), 129.0 (CH), 122.9 (CH), 119.9 (CH), 119.2 (CH), 118.1 (CH), 115.2 (CH), 109.7 (CH), 50.8 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS m/z 375 [M+H]⁺.

***N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-chlorobenzamide (53b)**

Compound **53b** was obtained, in 56% total yield; mp: 227–229 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.30. ¹H NMR (400 MHz, DMSO-*d*₆) δ : 10.65 (1H, s, NH), 7.94 (2H, d, $J = 8$ Hz, H-3'',5''), 7.80 (1H, s, H-2'), 7.730 (1H, d, $J = 8$ Hz, H-4'), 7.59 (2H, d, $J = 7.2$ Hz, H-3'',5''), 7.08 (1H, d, $J = 7.6$ Hz, H-6'), 5.90 (2H, s, CH₂), 2.36 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 169.9 (CO), 149.8 (C), 144.6 (C), 142.6 (C), 141.8 (C), 141.7 (C), 138.7 (C), 138.7 (C), 137.0 (C), 134.8 (2CH), 134.3 (CH), 133.6 (2CH), 128.3 (CH), 125.2 (CH), 124.5 (CH), 123.4 (CH), 115.0 (CH), 56.0 (CH₂), 25.6 (CH₃), 25.1 (CH₃). LC/MS m/z 391 [M+H]⁺, 413 [M+Na]⁺.

***N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-bromobenzamide (54b)**

Compound **54b** was obtained, in 15% total yield; mp: 237–238 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.25. ¹H NMR (400 MHz, DMSO-*d*₆) δ : 7.78 (2H, d, $J = 8.4$ Hz, H-3'',5''), 7.80 (1H, s, H-4), 7.72 (3H, m, H-4',2'',6''), 7.65 (1H, s, H-2'), 7.59 (1H, s, H-7), 7.34 (1H, t, $J = 7.6$ Hz, H-5'), 7.08 (2H, d, $J = 7.6$ Hz, H-6'), 5.9 (2H, s, 2CH₂), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 164.5 (CO), 144.6 (C), 139.4 (C), 137.4 (C), 136.6 (CH), 133.8 (C), 133.5 (C), 131.7 (C), 131.3 (2CH), 129.8 (2CH), 129.0 (CH), 125.4 (C), 123.0 (C), 119.9 (CH), 118.1 (CH), 109.7 (CH), 50.8 (CH₂), 20.1 (CH₃). LC/MS m/z 436 [M+H]⁺.

4-cyano-*N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)benzamide (55b)

Compound **55b** was obtained, in 26% total yield; mp: 242–247 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.3. ¹H NMR (400 MHz, DMSO-*d*₆) δ : 7.85 (2H, d, $J = 7.9$ Hz, H-2'',6''), 7.86 (2H, d, $J = 7.76$, H-3'',5''), 7.28 (1H, s, H-2'), 7.62 (1H, d, $J = 7.6$ Hz, H-4'), 7.52 (1H, s, H-4), 7.38 (1H, s, H-7), 7.27 (1H, t, $J = 7.3$ Hz, H-5'), 7.00 (1H, d, $J = 7.03$ Hz, H-6'), 5.71 (2H, s, CH₂), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 164.2 (CO), 144.6 (C), 139.1 (C), 138.8 (C), 136.8 (C), 136.6 (C), 133.5 (C), 132.4 (2CH), 131.7 (C), 129.3 (CH), 128.5 (CH), 132.3 (CH), 120.0 (CH), 119.3 (CH), 118.2 (CN), 118.1 (CH), 113.8 (C), 109.7 (CH), 50.6 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS m/z 382 [M+H]⁺.

***N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-(trifluoromethyl)benzamide (56b)**

Compound **56b** was obtained, in 20% total yield; mp: 201–203 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.84. ¹H NMR (400 MHz, DMSO-*d*₆) δ : 10.47 (1H, s, NH), 8.10 (2H, d, $J = 8$ Hz, H-2'',6''), 7.89 (2H, d, $J = 8.4$ Hz, H-3'',5''), 7.80 (1H, s, H-4), 7.74 (1H, d, $J = 8$ Hz, H-6'), 7.66 (1H, s, H-2'), 7.59 (1H, s, H-7), 7.36 (1H, t, $J = 8.0$ Hz, H-5'), 7.12 (1H, d, $J = 7.1$ Hz, H-4'), 5.91 (2H, s, CH₂), 2.36 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 164.4 (CO), 145.5 (C), 137.5 (C), 136.8 (2C), 136.4 (C), 135.8 (C), 134.4 (C), 132.8 (C), 128.8 (CH), 127.8 (2CH), 125.2 (2CH), 124.1 (2CH), 123.2 (CH), 121.3 (CH), 118.6 (CH), 50.7 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS m/z 425 [M+H]⁺.

***N*-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-nitrobenzamide (57b)**

Compound **57b** was obtained, in 31% total yield; mp: 227–230 °C; TLC (petroleum ether/ethyl acetate = 4/6) R_f : 0.76. ¹H NMR (400 MHz, DMSO-*d*₆) δ : 10.57 (1H, s, NH), 8.34 (2H, d, $J = 8.2$ Hz, 3'',5''), 8.12 (2H, d, $J = 8.2$ Hz, H-2'',6''), 7.80 (1H, s, H-2'), 7.75 (1H, d, $J = 9.2$ Hz, H-4'), 7.64 (1H, s, H-4), 7.59 (1H, s, H-7), 7.36 (1H, t, $J = 8$ Hz, H-5'), 7.12 (1H, d, $J = 7.6$, H-6'), 5.92 (2H, s, CH₂), 2.35 (2CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 163.9 (CO), 149.1 (C), 144.6 (C), 140.4 (C), 139.1 (C), 137.4 (C), 136.7 (C), 133.5 (C), 131.7 (C), 129.2 (2CH), 129.1 (CH), 123.5 (CH), 123.3 (CH), 122.7 (CH), 120.0 (CH), 119.3 (CH), 118.1 (CH), 109.7 (CH), 50.7 (CH₂), 20.1 (2CH₃). LC/MS m/z 402 [M+H]⁺.

1-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-ethylurea (58a)

Compound **58a** was obtained, in 44% total yield; mp: 244–245 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.15. ¹H NMR (400 MHz, DMSO-*d*₆) δ : 8.49 (1H, s, H-4), 8.44 (1H, s, NH), 8.37 (1H, s, H-7), 7.33 (1H, d, $J = 8.4$ Hz, H-4'), 7.31 (1H, s, H-2'), 7.19 (1H, t, H-5'), 6.88 (1H, d, $J = 7.6$ Hz, H-6'), 6.03 (1H, t, NH), 5.92 (2H, s, CH₂), 3.07 (2H, q, CH₂), 1.02 (3H, t, CH₃). ¹³C-NMR (DMSO-*d*₆) δ : 154.9 (CO), 144.2 (C), 141.1 (C), 135.8 (C), 132.0 (C), 130.7 (C), 129.1 (CH), 127.2 (C), 120.6 (CH), 120.2 (CH), 117.3 (CH), 116.5 (CH), 112.5 (CH), 51.3 (CH₂), 34.0 (CH₂), 15.4 (CH₃). LC/MS m/z : 364 [M+H]⁺.

1-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-propylurea (59a)

Compound **59a** was obtained, in 45% total yield; mp: >300 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.38. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.50 (1H, s, H-4), 8.43 (1H, s, NH), 8.37 (1H, s, H-7), 7.33 (1H, d, J = 8.0 Hz, H-4'), 7.32 (1H, s, H-2'), 7.20 (1H, t, H-5'), 6.88 (1H, d, J = 7.6 Hz, H-6'), 6.07 (1H, t, NH), 5.92 (2H, s, CH₂), 3.00 (2H, q, CH₂), 1.43–1.38 (2H, m, CH₂), 0.85 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6) δ : 155.0 (CO), 144.2 (C), 141.1 (C), 135.8 (C), 132.1 (C), 130.7 (C), 129.1 (CH), 127.2 (C), 121.2 (CH), 120.6 (CH), 117.3 (CH), 116.5 (CH), 112.5 (CH), 51.3 (CH₂), 40.8 (CH₂), 22.9 (CH₂), 11.3 (CH₃). LC/MS m/z : 378 [M+H]⁺.

1-butyl-3-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (60a)

Compound **60a** was obtained, in 19% total yield; mp: 232–233 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.41. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.49 (1H, s, H-4), 8.42 (1H, s, NH), 8.35 (1H, s, H-7), 7.33 (1H, d, J = 8.0 Hz, H-4'), 7.30 (1H, s, H-2'), 7.19 (1H, t, H-5'), 6.88 (1H, d, J = 7.6 Hz, H-6'), 6.05 (1H, t, NH), 5.92 (2H, s, CH₂), 3.04 (2H, q, CH₂-CH₃), 1.41–1.31 (2H, m, CH₂), 1.31–1.27 (2H, m, CH₂), 0.87 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6) δ : 155.5 (CO), 144.7 (C), 141.5 (C), 136.3 (C), 132.5 (C), 131.2 (C), 129.6 (CH), 127.7 (C), 121.1 (CH), 120.7 (CH), 117.7 (CH), 116.9 (CH), 113.0 (CH), 51.7 (CH₂), 32.3 (CH₂), 19.9 (CH₂), 14.1 (CH₃). LC/MS m/z : 392, 394 [M+H]⁺.

1-cyclopentyl-3-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (61a)

Compound **61a** was obtained, in 10% total yield; mp: 231–232 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.36. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.49 (1H, s, H-4), 8.34 (1H, s, NH), 8.28 (1H, s, H-7), 7.28 (1H, s, H-2'), 7.31 (1H, d, J = 8.0 Hz, H-4'), 7.19 (1H, t, H-5'), 6.87 (1H, d, J = 7.6 Hz, H-6'), 6.08 (1H, d, J = 6.8 Hz, NH), 5.92 (2H, s, CH₂), 1.83–1.78 (1H, m, CH), 1.61–1.59 (2H, m, CH₂), 1.53–1.50 (2H, m, CH₂), 1.34–1.30 (4H, m, 2CH₂). ^{13}C -NMR (DMSO- d_6) δ : 154.6 (CO), 144.2 (C), 141.0 (C), 135.8 (C), 132.0 (C), 130.7 (C), 129.2 (CH), 127.2 (C), 120.6 (CH), 120.2 (CH), 117.2 (CH), 116.4 (CH), 112.5 (CH), 51.3 (CH₂), 50.8 (CH), 32.7 (2CH₂), 23.1 (2CH₂). LC/MS m/z : 404 [M+H]⁺.

1-cyclohexyl-3-(3-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (62a)

Compound **62a** was obtained, in 10% total yield; mp: 200–201 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.18. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.17 (1H, s, NH), 8.49 (1H, s, H-4), 8.37 (1H, s, H-7), 7.52 (1H, s, H-2'), 7.37–7.27 (2H, m, H-4',5'), 7.06 (1H, d, J = 6.8 Hz, H-6'), 6.08–5.87 (1H, m, NH-CH), 5.56 (2H, d, J = 5.2 Hz, CH₂), 1.73–1.42 (4H, m, 2CH₂), 1.23–1.03 (6H, m, 3CH₂). ^{13}C -NMR (DMSO- d_6) δ : 156.6 (CO), 144.2 (C), 138.6 (C), 136.2 (C), 132.1 (C), 130.8 (C), 129.4 (CH), 129.2 (C), 122.9 (CH), 120.6 (CH), 118.9 (CH), 118.1 (CH), 112.5 (CH), 51.0 (CH₂), 47.5 (CH-N), 33.3 (3CH₂), 24.4 (2CH₂). LC/MS m/z : 404 [M+H]⁺.

1-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-ethylurea (63b)

Compound **63b** was obtained, in 79% total yield; mp: 271–273 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.07. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.45 (1H, s, NH), 7.79 (1H, s, H-4), 7.55 (1H, s, H-7), 7.33 (1H, d, J = 9.2 Hz, H-6'), 7.23 (1H, s, H-2'), 7.17 (1H, t, H-5'), 6.81 (1H, d, J = 7.6 Hz, H-4'), 6.03 (1H, t, NH), 5.82 (2H, s, CH₂), 3.12–3.00 (2H, m, CH₂), 2.35 (6H, s, 2CH₃), 1.01 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6) δ : 155.0 (CO), 144.5 (C), 140.9 (C), 137.4 (C), 136.4 (C), 133.5 (C), 131.7 (C), 129.0 (CH), 120.0 (CH), 118.1 (CH), 117.1 (CH), 116.4 (CH), 109.7 (CH), 50.9 (CH₂), 33.9 (CH₂), 20.4 (CH₃), 19.8 (CH₃), 15.4 (CH₃). LC/MS m/z : 324 [M+H]⁺.

1-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-propylurea (64b)

Compound **64b** was obtained, in 31% total yield; mp: 189–191 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.14. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.42 (1H, s, NH), 7.79 (1H, s, H-4), 7.55 (1H, s, H-7), 7.33 (1H, d, J = 8.8 Hz, H-6'), 7.22 (1H, s, H-2'), 7.17 (1H, t, H-5'), 6.81 (1H, d, J = 7.6 Hz, H-4'), 6.06 (1H, t, NH), 5.82 (2H, s, CH₂), 3.05–2.95 (2H, m, CH₂), 2.35 (6H, s, 2CH₃), 1.40 (2H, q, CH₂-NH), 0.84 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6) δ : 155.0 (CO), 144.5 (C), 141.0 (C), 137.4 (C), 136.5 (C), 133.5 (C), 131.7 (C), 129.2 (CH), 120.0 (CH), 118.1 (CH), 117.1 (CH), 116.3 (CH), 109.7 (CH), 50.8 (CH₂), 40.8 (CH₂), 22.9 (CH₂), 20.4 (CH₃), 19.8 (CH₃), 11.3 (CH₃). LC/MS m/z : 338 [M+H]⁺.

1-(sec-butyl)-3-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (65b)

Compound **65b** was obtained, in 31% total yield; mp: 202–204 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.22. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.31 (1H, s, NH), 7.79 (1H, s, H-4), 7.55 (1H, s, H-7), 7.31 (1H, d, J = 7.6 Hz, H-6'), 7.22 (1H, s, H-2'), 7.17 (1H, t, H-5'), 6.81 (1H, d, J = 7.6 Hz, H-4'), 5.86 (1H, q, NH), 5.82 (2H, s, CH₂), 2.35 (6H, s, 2CH₃), 1.45–1.38 (1H, m, CH), 1.02 (3H, t, CH₃), 0.83 (2H, t, CH₂). ^{13}C -NMR (DMSO- d_6) δ : 154.5 (CO), 144.5 (C), 140.9 (C), 137.4 (C), 136.5 (C), 133.5 (C), 131.7 (C), 129.0 (CH), 120.0 (CH), 118.1 (CH), 117.0 (CH), 116.2 (CH), 109.7 (CH), 50.8 (CH₂), 46.0 (CH), 29.2 (CH₂), 20.6 (CH₃), 20.4 (CH₃), 19.8 (CH₃), 10.2 (CH₃). LC/MS m/z : 352 [M+H]⁺.

1-butyl-3-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (66b)

Compound **66b** was obtained, in 37% total yield; mp: 195–197 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.18. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.40 (1H, s, NH), 7.79 (1H, s, H-4), 7.55 (1H, s, H-7), 7.33 (1H, d, J = 8.00 Hz, H-6'), 7.22 (1H, s, H-2'), 7.17 (1H, t, H-5'), 6.81 (1H, d, J = 7.6 Hz, H-4'), 6.03 (1H, t, NH), 5.82 (2H, s, CH₂), 3.04 (2H, q, CH₂), 2.35 (6H, s, 2CH₃), 1.45–1.39 (2H, m, CH₂), 1.39–1.20 (2H, m, CH₂), 0.87 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6) δ :

160.2 (CO), 149.8 (C), 146.2 (C), 142.6 (C), 141.7 (C), 138.7 (C), 137.0 (C), 134.3 (CH), 125.2 (CH), 123.3 (CH), 122.3 (CH), 121.5 (CH), 115.0 (CH), 56.1 (CH₂), 43.9 (CH₂), 37.0 (CH₃), 25.6 (CH₃), 25.1 (CH₃), 24.7 (CH₂), 18.9 (CH₃). LC/MS *m/z*: 352 [M+H]⁺.

1-(tert-butyl)-3-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (67b)

Compound **67b** was obtained, in 22% total yield; mp: 189–191 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.33. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.24 (1H, s, NH), 7.79 (1H, s, H-4), 7.56 (1H, s, H-7), 7.26 (1H, d, *J* = 8.4 Hz, H-6'), 7.23 (1H, s, H-2'), 7.16 (1H, t, H-5'), 6.78 (1H, d, *J* = 7.6 Hz, H-4'), 5.91 (1H, s, NH), 5.82 (2H, s, CH₂), 2.35 (6H, s, CH₃), 1.26 (9H, s, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 159.4 (CO), 149.8 (C), 146.2 (C), 142.6 (C), 141.7 (C), 138.7 (C), 137.0 (C), 134.3 (C), 125.1 (CH), 123.3 (CH), 122.1 (CH), 121.4 (CH), 115.0 (CH), 56.1 (C), 54.6 (CH₂), 34.2 (3CH₃), 25.6 (CH₃), 25.1 (CH₃). LC/MS *m/z*: 352 [M+H]⁺.

1-cyclopentyl-3-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (68b)

Compound **68b** was obtained, in 33% total yield; mp: 290–292 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.21. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.25 (1H, s, NH), 7.79 (1H, s, H-4), 7.55 (1H, s, H-7), 7.31 (1H, d, *J* = 8.4 Hz, H-6'), 7.20 (1H, s, H-2'), 7.17 (1H, t, H-5'), 6.81 (1H, d, *J* = 7.6 Hz, H-4'), 6.06 (1H, d, NH), 3.95–3.8 (1H, m, CH), 2.35 (6H, s, CH₃), 1.89–1.72 (2H, m, CH₂), 1.68–1.48 (4H, m, 2CH₂), 1.33 (2H, t, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 154.6 (CO), 144.5 (C), 140.9 (C), 137.3 (C), 136.5 (C), 133.4 (C), 131.7 (C), 129.0 (CH), 120.0 (CH), 118.1 (CH), 117.0 (CH), 116.2 (CH), 109.7 (CH), 50.8 (CH), 50.8 (CH₂), 32.8 (2CH₂), 23.1 (2CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS *m/z*: 364 [M+H]⁺.

1-cyclohexyl-3-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (69b)

Compound **69b** was obtained, in 25% total yield; mp: 233–235 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.26. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.30 (1H, s, NH), 7.79 (1H, s, H-4), 7.55 (1H, s, H-7), 7.31 (1H, d, *J* = 8.8 Hz, H-6'), 7.22–7.11 (2H, m, H-5'/H-2'), 6.81 (1H, d, *J* = 7.6 Hz, H-4'), 5.98 (1H, d, *J* = 7.6 Hz, NH), 5.82 (2H, s, CH₂), 3.54 (1H, m, CH), 2.35 (6H, s, 2CH₃), 1.8–1.48 (4H, m, 2CH₂), 1.35–1.05 (6H, m, 3CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 154.2 (CO), 144.5 (C), 140.9 (C), 137.3 (C), 136.5 (C), 133.5 (C), 131.7 (C), 129.0 (CH), 120.0 (CH), 118.1 (CH), 117.0 (CH), 116.1 (CH), 109.7 (CH), 50.8 (CH₂), 47.5 (CH), 32.8 (CH₂), 25.2 (2CH₂), 24.2 (2CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS *m/z*: 378 [M+H]⁺.

1-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-(4-methoxyphenyl)urea (70b)

Compound **70b** was obtained, in 29% total yield; mp: 233–235 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.15. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.65 (1H, s, NH), 8.43 (1H, d, NH), 7.85 (1H, s, H-4), 7.64 (1H, s, H-7), 7.44 (1H, d, *J* = 8.00 Hz, H-6'), 7.40–7.32 (3H, m, H-2', H-2'', H-6''), 7.29 (1H, t, H-5'), 6.98–6.85 (3H, m, H-4', H-3'', H-5''), 5.92 (1H, s, CH₂), 3.76 (3H, s, OCH₃), 2.41 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 154.5 (CO), 152.5 (C), 144.5 (C), 140.3 (C), 137.3 (C), 136.7 (C), 133.5 (C), 132.5 (C), 131.8 (C), 129.2 (CH), 120.7 (CH), 120.0 (2CH), 118.1 (CH), 117.5 (CH), 116.8 (CH), 113.9 (2CH), 109.7 (CH), 55.1 (OCH₃), 50.8 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS *m/z*: 402 [M+H]⁺.

1-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-(3,4,5-trimethoxyphenyl)urea (71b)

Compound **71b** was obtained, in 43% total yield; mp: 206–208 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.05. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.64 (1H, s, NH), 8.53 (1H, s, NH), 7.80 (1H, s, H-4), 7.60 (1H, s, H-7), 7.30–7.40 (2H, m, H-2', H-6'), 7.24 (1H, t, H-5'), 6.88 (1H, d, *J* = 7.2 Hz, H-4'), 6.77 (2H, s, H-2'', H-6''), 5.87 (2H, s, CH₂), 3.74 (6H, s, CH₃), 3.60 (3H, s, CH₃), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 152.8 (CO), 152.4 (C), 144.5 (C), 150.0 (C), 139.9 (C), 137.4 (C), 136.7 (C), 133.6 (C), 135.7 (C), 135.6 (C), 133.5 (C), 132.5 (C), 131.7 (C), 129.2 (CH), 120.9 (CH), 118.1 (CH), 117.8 (CH), 117.1 (CH), 109.8 (CH), 96.0 (CH), 60.1 (OCH₃), 55.7 (2OCH₃), 50.8 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS *m/z*: 462 [M+H]⁺.

1-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-(4-fluorophenyl)urea (72b)

Compound **72b** was obtained, in 38% total yield; mp: 245–247 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.18. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.68 (1H, s, NH), 8.60 (1H, s, NH), 7.80 (1H, s, H-4), 7.58 (1H, s, H-7), 7.48–7.34 (3H, d, H-6', H-2'', H-6''), 7.30 (1H, s, H-2'), 7.25 (1H, t, H-5'), 7.10 (2H, t, H-3'', H-5''), 6.90 (1H, d, *J* = 7.6 Hz, H-4'), 5.87 (1H, s, CH₂), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 157.3 (C-F), 152.5 (CO), 140.1 (C), 137.4 (C), 136.7 (C), 135.8 (C), 133.5 (C), 131.8 (C), 129.2 (CH), 120.9 (CH), 120.0 (CH), 119.9 (CH), 118.1 (CH), 117.7 (CH), 116.9 (CH), 115.3 (CH), 115.1 (CH), 109.7 (CH), 50.8 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS *m/z*: 390 [M+H]⁺.

1-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-(4-chlorophenyl)urea (73b)

Compound **73b** was obtained, in 17% total yield; mp: 249–251 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.20. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.72 (2H, s, 2NH), 7.80 (1H, s, H-4), 7.58 (1H, s, H-7), 7.45 (2H, d, *J* = 8.8 Hz, H-3'', H-5''), 7.40 (1H, d, *J* = 8.00 Hz, H-6'), 7.35–7.28 (3H, m, H-2', H-2'', H-6''), 7.26 (1H, t, H-5'), 6.91 (1H, d, *J* = 7.6 Hz, H-4'), 5.87 (1H, s, CH₂), 2.35 (6H, s, 2CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 152.3 (CO), 144.5 (C), 139.9 (C), 138.5 (C), 137.4 (C), 136.7 (C), 133.5 (C), 131.7 (C), 129.2 (CH), 128.6 (2CH), 125.4 (CH), 121.0 (CH), 119.7 (2CH), 118.1 (CH), 117.8 (CH), 117.0 (CH), 109.7 (CH), 50.7 (CH₂), 20.4 (CH₃), 19.8 (CH₃). LC/MS *m/z*: 406 [M+H]⁺.

1-(3-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-(4-(trifluoromethyl)phenyl)urea (74b)

Compound **74b** was obtained, in 33% total yield; mp: 290–292 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.18. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.03 (1H, s, NH), 8.85 (1H, s, NH), 7.80 (1H, s, H-4), 7.62 (4H, s, H-2", H-3", H-5", H-6"), 7.59 (1H, s, H-7), 7.41 (1H, d, J = 8.4 Hz, H-6'), 7.33 (1H, s, H-2'), 7.27 (1H, t, H-5'), 6.93 (1H, d, J = 7.2 Hz, H-4'), 5.88 (1H, s, CH_2), 2.35 (6H, s, 2CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 152.1 (CO), 144.5 (C), 143.3 (C), 139.7 (2C), 137.4 (C), 136.8 (2C), 133.5 (C), 131.8 (C), 129.2 (CH), 126.0 (CH), 121.3 (CH), 118.1 (CH), 117.8 (4CH), 117.2 (CH), 109.7 (CH), 50.7 (CH_2), 20.4 (CH_3), 19.8 (CH_3). LC/MS m/z : 440 $[\text{M}+\text{H}]^+$.

***N*-(4-(5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)phenyl)acetamide (75b)**

Compound **75b** was obtained, in 89% total yield; mp: 166–168 °C; TLC (petroleum ether /ethyl acetate 1:1): R_f : 0.22. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.98 (1H, s, NH), 7.64 (1H, s, H-4,7), 7.53 (2H, d, J = 8.8, H-2',6'), 7.27 (2H, d, J = 8.4, H-3',5'), 5.80 (2H, s, CH_2), 2.34 (6H, s, 2CH_3), 2.01 (3H, s, CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$): 168.9 (C), 145.5 (2C), 136.6 (2C), 135.2 (C), 130.9 (C), 128.8 (2CH), 124.1 (CH), 121.5 (2CH), 61.6 (CH_2), 24.0 (CH_3), 18.8 (2 CH_3). LC/MS m/z 295 $[\text{M}+\text{H}]^+$.

***N*-(4-(5,6-dimethyl-2H-benzo[d][1,2,3]triazol-2-yl)phenyl)propionamide (76b)**

Compound **76b** was obtained, in 82% total yield; mp: 177–179 °C; TLC (petroleum ether /ethyl acetate 6:4): R_f : 0.29. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.91 (1H, s, NH), 7.64 (1H, s, H-4,7), 7.56 (2H, d, J = 7.8, H-2',6'), 7.29 (2H, d, J = 7.8, H-3',5'), 5.81 (2H, s, CH_2), 2.46 (2H, q, CH_2CH_3), 2.35 (6H, s, 2CH_3), 1.06 (3H, t, CH_2CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$): 168.9 (C), 145.5 (2C), 136.6 (2C), 135.2 (C), 130.9 (C), 128.8 (2CH), 124.1 (CH), 121.5 (2CH), 61.6 (CH_2), 30.0 (CH_2), 18.8 (2 CH_3), 10.4 (CH_3). LC/MS m/z 309 $[\text{M}+\text{H}]^+$.

***N*-(4-(5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)phenyl)acetamide (77b)**

Compound **77b** was obtained, in 90% total yield; mp: 205–207 °C; TLC (petroleum ether /ethyl acetate 4:6): R_f : 0.24. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.96 (1H, s, NH), 7.77 (1H, s, H-4), 7.58 (1H, s, H-7), 7.51 (2H, d, J = 8.0, H-2',6'), 7.24 (2H, d, J = 8.4, H-3',5'), 5.81 (2H, s, CH_2), 2.34 (6H, s, 2CH_3), 2.00 (3H, s, CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$): 168.9 (C), 145.6 (C), 136.6 (2C), 135.2 (C), 132.8 (C), 130.9 (C), 128.8 (2CH), 124.1 (CH), 121.5 (2CH), 61.6 (CH_2), 24.0 (CH_3), 18.8 (2 CH_3). LC/MS m/z 295 $[\text{M}+\text{H}]^+$.

***N*-(4-(5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)phenyl)propionamide (78b)**

Compound **78b** was obtained, in 30% total yield; mp: 218–220 °C; TLC (petroleum ether /ethyl acetate 1:1): R_f : 0.32. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.89 (1H, s, NH), 7.78 (1H, s, H-4), 7.58 (1H, s, H-7), 7.54 (2H, d, J = 8.6, H-2',6'), 7.24 (2H, d, J = 8.6, H-3',5'), 5.81 (2H, s, CH_2), 2.34 (6H, s, 2CH_3), 2.32 (2H, q, CH_2CH_3), 1.04 (3H, t, CH_2CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$): 168.9 (C), 145.6 (C), 136.6 (2C), 135.2 (C), 132.8 (C), 130.9 (C), 128.8 (2CH), 124.1 (CH), 121.5 (2CH), 61.6 (CH_2), 32.0 (CH_2), 18.8 (2 CH_3), 10.4 (CH_3). LC/MS m/z 309 $[\text{M}+\text{H}]^+$.

***N*-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)acetamide (79c)**

Compound **79c** was obtained, in 75% total yield; mp: 187–189 °C; TLC (petroleum ether /ethyl acetate 6:4): R_f : 0.10. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.97 (1H, s, NH), 8.04 (1H, d, J = 8.2, H-4), 7.82 (1H, d, J = 8.2, H-7), 7.53–7.48 (3H, m, H-3',5', H-5), 7.40 (1H, t, H-6), 7.28 (2H, d, J = 8.6, H-2',6'), 5.90 (2H, s, CH_2), 2.00 (3H, s, CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$) δ : 168.9 (CO), 145.5 (C), 132.8 (C), 131.8 (C), 135.5 (C), 129.2 (2CH), 126.2 (2CH), 121.5 (2CH), 119.6 (CH), 110.0 (CH), 54.7 (CH_2), 24.0 (CH_3). LC/MS m/z 267 $[\text{M}+\text{H}]^+$.

***N*-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)propionamide (80c)**

Compound **80c** was obtained, in 73% total yield; mp: 192–195 °C; TLC (petroleum ether /ethyl acetate 6:4): R_f : 0.32. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.90 (1H, s, NH), 8.04 (1H, d, J = 8.0, H-4), 7.82 (1H, d, J = 8.0, H-7), 7.59–7.48 (3H, m, H-3',5', H-5), 7.36 (1H, t, H-6), 7.28 (2H, d, J = 8.0, H-2',6'), 5.90 (2H, s, CH_2), 2.31 (2H, q, CH_2CH_3), 1.04 (3H, t, CH_2CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$): 168.8 (CO), 145.5 (C), 132.8 (C), 131.8 (C), 135.5 (C), 129.2 (2CH), 126.2 (2CH), 121.5 (2CH), 119.6 (CH), 110.0 (CH), 54.7 (CH_2), 30.6 (CH_2), 10.0 (CH_3). LC/MS m/z 281 $[\text{M}+\text{H}]^+$.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)acetamide (81d)**

Compound **81d** was obtained, in 50% total yield; mp: 242–243 °C; TLC (petroleum ether /ethyl acetate 6:4): R_f : 0.10. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.97 (H, s, NH), 8.21 (H, t, H-4), 8.13 (H, t, H-7), 7.53 (2H, d, J = 8.0 Hz, H-3',5'), 7.31 (2H, d, J = 8.0 Hz, H-2',6'), 5.87 (2H, s, CH_2), 2.00 (3H, s, CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$): δ 168.9 (C), 149.5 (2C), 145.5 (C), 135.5 (C), 132.8 (C), 131.8 (C), 129.2 (2CH), 121.5 (2CH), 117.1 (2CH), 54.7 (CH_2), 24.0 (CH_3). LC/MS: m/z 303 $[\text{M}+\text{H}]^+$.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)propionamide (82d)**

Compound **82d** was obtained, in 22% total yield; mp: 240–242 °C; TLC (petroleum ether /ethyl acetate 6:4): R_f : 0.24. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) δ : 9.90 (H, s, NH), 8.19 (H, t, H-4), 8.10 (H, t, H-7), 7.55 (2H, d, J = 8.0 Hz, H-3',5'), 7.31 (2H, d, J = 8.0 Hz, H-2',6'), 5.87 (2H, s, CH_2), 2.28 (2H, q, CH_2), 1.05 (3H, s, CH_3). ^{13}C -NMR ($\text{DMSO}-d_6$): δ 172.0 (C), 149.5 (2C), 145.5 (C), 135.5 (C), 132.8 (C), 131.8 (C), 129.2 (2CH), 121.5 (2CH), 117.1 (2CH), 54.7 (CH_2), 30.6 (CH_2), 10.0 (CH_3). LC/MS: m/z 317 $[\text{M}+\text{H}]^+$.

***N*-(4-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methoxybenzamide (83b)**

Compound **83b** was obtained, in 53% total yield; mp: 196–198 °C; TLC (petroleum ether/ethyl acetate = 1/1) R_f : 0.30. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.13 (1H, s, NH), 7.93 (2H, d, J = 8.6 Hz, H-2'', 6''), 7.80 (1H, s, H-4), 7.73 (2H, d, J = 8.2 Hz, H-3', 5'), 7.61 (1H, s, H-7), 7.30 (2H, d, J = 8.2 Hz, H-2', 6'), 7.05 (2H, d, J = 8.4 Hz, H-3'', 5''), 5.86 (2H, s, CH₂), 3.83 (3H, s, OCH₃), 2.36 (6H, s, 2CH₃). ^{13}C -NMR (DMSO- d_6) δ : 164.9 (CO), 161.9 (C), 144.6 (C), 139.7 (C), 137.3 (C), 136.4 (C), 133.5 (C), 131.7 (C), 129.6 (CH), 129.3 (CH), 128.9 (CH), 126.7 (C), 122.6 (CH), 119.9 (CH), 119.2 (CH), 118.1 (CH), 113.7 (CH), 113.5 (CH), 109.7 (CH), 55.4 (OCH₃), 50.8 (CH₂), 20.1 (2CH₃). LC/MS m/z 387 [M+H]⁺.

***N*-(4-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-nitrobenzamide (84b)**

Compound **84b** was obtained, in 34% total yield; mp: 192–194 °C; TLC (petroleum ether/ethyl acetate = 1/1) R_f : 0.28. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.19 (1H, s, NH), 8.21 (1H, s, H-4), 7.76 (1H, s, H-7), 7.58–7.60 (6H, m, H-3', 5', 2'', 3'', 5'', 6''), 7.25 (2H, d, J = 8.2 Hz, H-2', 6'), 5.81 (2H, s, CH₂), 2.33 (6H, s, 2CH₃). ^{13}C -NMR (DMSO- d_6) δ : 163.9 (CO), 149.1 (C), 144.6 (C), 140.4 (C), 139.1 (C), 137.4 (C), 136.7 (C), 133.5 (C), 131.7 (C), 129.2 (2CH), 129.1 (CH), 123.5 (CH), 123.4 (CH), 122.7 (CH), 120.0 (CH), 119.3 (CH), 118.1 (CH), 109.7 (CH), 50.7 (CH₂), 20.1 (2CH₃). LC/MS m/z 402 [M+H]⁺.

***N*-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-nitrobenzamide (85c)**

Compound **85c** was obtained, in 34% total yield; mp: 245–246 °C; TLC (petroleum ether/ethyl acetate = 4/6) R_f : 0.68. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.62 (1H, s, NH), 8.36 (2H, d, J = 7.8, H-3'', 5''), 8.15 (2H, d, J = 7.8, H-2'', 6''), 8.06 (1H, d, J = 7.6, H-4), 7.85 (1H, d, J = 7.6, H-7), 7.75 (2H, d, J = 7.8, H-3', 5'), 7.55 (1H, t, H-5), 7.44–7.36 (3H, m, H-6, 2', 6'), 5.97 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6) δ : 163.9 (CO), 149.1 (C), 144.6 (C), 140.4 (C), 139.1 (C), 133.5 (C), 131.7 (C), 129.2 (2CH), 129.1 (CH), 126.2 (2CH), 123.5 (CH), 123.3 (CH), 122.7 (CH), 120.0 (CH), 119.3 (CH), 118.1 (CH), 109.7 (CH), 50.7 (CH₂). LC/MS m/z 374, 375 [M+H]⁺.

***N*-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methoxybenzamide (86c)**

Compound **86c** was obtained, in 41% total yield; mp: 172–174 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.21. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.14 (1H, s, NH), 8.06 (1H, d, J = 8.2, H-4), 7.94 (2H, d, J = 8.4, H-2'', 6''), 7.85 (1H, d, J = 9.0, H-7), 7.75 (2H, d, J = 7.6, H-3', 5'), 7.56 (1H, t, H-5), 7.44–7.33 (3H, m, H-6 e 2', 6'), 7.04 (2H, d, J = 8.0, H-3'', 5''), 5.95 (2H, s, CH₂), 3.84 (3H, s, OCH₃). ^{13}C -NMR (DMSO- d_6) δ : 163.9 (CO), 154.1 (C), 144.6 (C), 140.4 (C), 139.1 (C), 137.4 (C), 136.7 (C), 133.5 (C), 131.7 (C), 129.2 (2CH), 129.1 (CH), 126.2 (2CH), 123.5 (CH), 123.3 (CH), 122.7 (CH), 120.0 (CH), 119.3 (CH), 118.1 (CH), 109.7 (CH), 60.1 (OCH₃), 50.7 (CH₂). LC/MS m/z 359 [M+H]⁺.

***N*-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3, 4, 5-trimethoxybenzamide (87c)**

Compound **87c** was obtained, in 54% total yield; mp: 147–149 °C; TLC (petroleum ether/ethyl acetate = 4/6) R_f : 0.35. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.17 (1H, s, NH), 8.05 (1H, d, J = 8.0, H-4), 7.95 (1H, s, H-2''), 7.86 (1H, d, J = 8.0, H-7), 7.70 (2H, d, J = 8.0, H-3', 5'), 7.53 (1H, t, H-5), 7.40–7.26 (3H, m, H-6, 2', 6'), 7.24 (1H, s, H-6''), 5.95 (2H, s, CH₂), 3.84 (6H, s, 2OCH₃), 3.71 (3H, s, OCH₃). ^{13}C -NMR (DMSO- d_6) δ : 165.0 (CO), 152.6 (2CH), 144.3 (C), 140.3 (C), 139.5 (C), 135.8 (C), 129.8 (C), 129.1 (CH), 127.3 (C), 126.1 (CH), 126.3 (CH), 123.2 (C), 120.6 (CH), 120.4 (C), 119.7 (CH), 112.5 (CH), 105.3 (2CH), 60.1 (OCH₃), 56.1 (2OCH₃), 51.2 (CH₂). LC/MS m/z 419 [M+H]⁺.

***N*-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-(trifluoromethoxy)benzamide (88c)**

Compound **88c** was obtained, in 63% total yield; mp: 229–231 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.55. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.52 (1H, s, NH), 8.14–8.00 (4H, m, H arom), 7.94–7.83 (4H, m, H arom), 7.80–7.72 (2H, m, H arom), 7.42–7.35 (2H, m, H arom), 5.96 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6) δ : 163.9 (CO), 154.1 (C), 144.6 (C), 140.4 (C), 139.1 (C), 137.4 (C), 136.7 (C), 133.5 (C), 131.7 (C), 129.7 (C), 129.2 (2CH), 129.1 (CH), 126.2 (2CH), 123.5 (CH), 123.3 (CH), 122.7 (CH), 120.0 (CH), 119.3 (CH), 118.1 (CH), 109.7 (CH), 50.7 (CH₂). LC/MS m/z 413 [M+H]⁺.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-methylbenzamide (89d)**

Compound **89d** was obtained, in 12% total yield; mp: 297–299 °C; TLC (petrol ether/ethyl acetate = 7/3) R_f : 0.47. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.70 (H, s, NH), 8.28–8.10 (2H, m, H-4, 7), 7.94 (2H, t, H-3'', 5''), 7.70 (2H, d, J = 7.8 Hz, H-3', 5'), 7.35 (2H, d, J = 6.6 Hz, H-2', 6'), 7.35 (2H, d, J = 6.6 Hz, H-2'', 6''), 6.00 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6) δ : 164.7 (C), 149.5 (2C), 145.5 (C), 139.3 (C), 134.9 (C), 132.8 (C), 132.3 (C), 131.8 (C), 129.3 (2CH), 129.2 (2CH), 127.5 (2CH), 121.5 (2CH), 54.7 (CH₂). LC/MS: m/z 379 [M+H]⁺.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-nitrobenzamide (90d)**

Compound **90d** was obtained, in 53% total yield; mp: 240–242 °C; TLC (chloroform/methanol = 99.5/0.5) R_f : 0.67. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.67 (H, s, NH), 8.35 (2H, d, J = 6.6 Hz, H-3'', 5''), 8.34–8.19 (4H, m, H-4, 7, 2'', 6''), 7.81 (2H, d, J = 6.6 Hz, H-3', 5'), 7.42 (2H, d, J = 6.6 Hz, H-2', 6'), 5.99 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6) δ : 164.7 (C), 151.3 (C), 149.5 (2C), 145.5 (C), 136.8 (C), 134.9 (C), 132.8 (C), 131.8 (C), 129.6 (2CH), 129.2 (2CH), 124.0 (2CH), 121.5 (2CH), 117.1 (2CH), 57.7 (CH₂). LC/MS: m/z 410 [M+H]⁺.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3, 4, 5-trimethoxybenzamide (91d)**

Compound **91d** was obtained, in 53% total yield; mp: 134–136 °C; TLC (chloroform/methanol = 99.5/0.5) R_f : 0.46. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.16 (H, s, NH), 8.27 (H, td, H-4), 8.19 (H, td, H-7), 7.70 (2H, d, J = 8.4 Hz, H-3', 5'), 7.38 (2H, d, J = 8.6 Hz, H-2', 6'), 7.24 (2H, s, H-2'', 6''), 5.91 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6): δ 164.7 (C), 153.2 (2C), 149.5 (2C), 145.5 (C), 142.6 (C), 134.9 (C), 132.8 (C), 131.8 (C), 124.1 (C), 129.2 (2CH), 121.5 (2CH), 117.1 (2CH), 106.6 (2CH), 60.8 (CH₃), 56.1 (2CH₃), 54.7 (CH₂). LC/MS: m/z 455 [M+H]⁺.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-fluorobenzamide (92d)**

Compound **92d** was obtained, in 50% total yield; mp: 241–242 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.21. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.33 (H, s, NH), 8.30–8.05 (2H, m, H-4, 7), 7.98 (2H, t, H-3'', 5''), 7.74 (2H, d, J = 7.8 Hz, H-3', 5'), 7.46–7.30 (4H, m, H-2', 6', 2'', 6''), 5.91 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6): δ 166.3 (C), 149.5 (2C), 145.5 (C), 134.9 (C), 132.8 (C), 131.8 (C), 129.8 (C), 129.2 (2CH), 129.1 (2CH), 121.5 (2CH), 117.1 (2CH), 115.6 (2CH), 54.7 (CH₂). LC/MS: m/z 383 [M+H]⁺.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-chlorobenzamide (93d)**

Compound **93d** was obtained, in 20% total yield; mp: 263–264 °C; TLC (chloroform/methanol = 99/1) R_f : 0.35. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.70 (H, s, NH), 8.28–8.10 (2H, m, H-4, 7), 8.08 (2H, t, H-3'', 5''), 7.70 (2H, d, J = 7.8 Hz, H-3', 5'), 7.42 (2H, d, J = 6.6 Hz, H-2', 6'), 7.35 (2H, d, J = 6.6 Hz, H-2'', 6''), 6.00 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6): δ 164.7 (C), 149.5 (2C), 145.5 (C), 137.7 (C), 134.9 (C), 132.8 (C), 132.3 (C), 131.8 (C), 130.1 (2CH), 129.2 (2CH), 128.2 (2CH), 121.5 (2CH), 54.7 (CH₂). LC/MS: m/z 400 [M+H]⁺.

***N*-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-4-bromobenzamide (94d)**

Compound **94d** was obtained, in 20% total yield; mp: 235–236 °C; TLC (petroleum ether/ethyl acetate = 7/3) R_f : 0.42. ^1H NMR (400 MHz, DMSO- d_6) δ : 10.70 (H, s, NH), 8.30–8.10 (2H, m, H-4, 7), 8.10 (2H, t, H-3'', 5''), 7.72 (2H, d, J = 7.8 Hz, H-3', 5'), 7.40 (2H, d, J = 6.6 Hz, H-2', 6'), 7.38 (2H, d, J = 6.6 Hz, H-2'', 6''), 5.98 (2H, s, CH₂). ^{13}C -NMR (DMSO- d_6): δ 164.7 (C), 149.5 (2C), 145.5 (C), 134.9 (C), 133.2 (C), 132.8 (C), 131.8 (C), 126.5 (C), 131.7 (2CH), 129.7 (2CH), 129.2 (2CH), 121.5 (2CH), 117.1 (2CH), 54.7 (CH₂). LC/MS: m/z 444 [M+H]⁺.

***1*-(4-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-ethylurea (95a)**

Compound **95a** was obtained, in 80% total yield; mp: 211–212 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.15. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.47 (2H, s, H-4 and NH-Ph), 8.36 (1H, s, H-7), 7.36 (2H, d, J = 7.2 Hz, H-3', 5'), 7.26 (2H, d, J = 7.2 Hz, H-2', 6'), 6.09 (H, t, NH-CH₂), 5.86 (2H, s, CH₂), 3.08 (2H, q, CH₂), 1.02 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6): δ 155.0 (CO), 144.3 (C), 140.7 (C), 131.8 (C), 130.6 (C), 128.6 (2CH), 127.5 (C), 127.1 (C), 120.6 (CH), 117.7 (2CH), 112.5 (CH), 51.0 (CH₂-Ph), 33.9 (CH₂), 15.4 (CH₃). LC/MS m/z : 364, 366 [M+H]⁺.

***1*-(4-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-propylurea (96a)**

Compound **96a** was obtained, in 12% total yield; mp: 213–214 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.21. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.46 (2H, s, H-4 and NH-Ph), 8.36 (1H, s, H-7), 7.36 (2H, d, J = 8.0 Hz, H-3', 5'), 7.25 (2H, d, J = 8.0 Hz, H-2', 6'), 6.12 (H, t, NH-CH₂), 5.86 (2H, s, CH₂), 3.01 (2H, q, CH₂-NH), 1.41 (2H, q, CH₂-CH₃), 0.85 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6) δ 155.0 (CO), 144.3 (C), 140.7 (C), 131.8 (C), 130.6 (C), 128.5 (2CH), 127.5 (C), 127.1 (C), 120.5 (CH), 117.7 (2CH), 112.5 (CH), 51.0 (CH₂-Ph), 40.8 (CH₂), 22.9 (CH₂), 11.3 (CH₃). LC/MS m/z : 378, 380 [M+H]⁺.

***1*-butyl-3-(4-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (97a)**

Compound **97a** was obtained, in 20% total yield; mp: 216–217 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.37. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.52 (H, s, H-4), 8.49 (7H, s, NH-Ph), 8.42 (H, s, H-7), 7.41 (2H, d, J = 8.4 Hz, H-3', 5'), 7.31 (2H, d, J = 8.4 Hz, H-2', 6'), 6.15 (H, t, NH-CH₂), 5.92 (2H, s, CH₂), 3.10 (2H, q, CH₂-NH), 1.46–1.38 (2H, m, CH₂-CH₂), 1.37–1.31 (2H, m, CH₂-CH₃), 0.92 (3H, t, CH₃). ^{13}C -NMR (DMSO- d_6) δ : 155.0 (CO), 144.3 (C), 140.7 (C), 131.8 (C), 130.6 (C), 128.6 (2CH), 127.5 (C), 127.1 (C), 120.6 (CH), 117.6 (2CH), 112.5 (CH), 51.0 (CH₂-Ph), 38.6 (CH₂), 31.8 (CH₂), 19.5 (CH₂), 13.6 (CH₃). LC/MS m/z : 392, 394 [M+H]⁺.

***1*-cyclohexyl-3-(4-((5,6-dichloro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (98a)**

Compound **98a** was obtained, in 80% total yield; mp: 130–132 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.46. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.47 (H, s, H-4), 8.35 (H, s, H-7), 8.36 (H, s, NH-Ph), 7.34 (2H, d, J = 8 Hz, H-3', 5'), 7.25 (2H, d, J = 8 Hz, H-2', 6'), 6.08 (H, d, NH-CH), 5.86 (2H, s, CH₂), 3.35–3.20 (H, m, CH-NH), 1.78–1.49 (6H, m, 3CH₂), 1.30–1.16 (4H, m, 2CH₂). ^{13}C -NMR (DMSO- d_6) δ : 156.6 (CO), 154.2 (C), 144.3 (C), 140.6 (C), 131.8 (C), 130.6 (C), 128.6 (2CH), 127.3 (C), 120.7 (CH), 117.6 (2CH), 112.5 (CH), 51.0 (CH₂Ph), 47.5 (CH-NH), 33.3 (2CH₂), 32.9 (CH₂), 25.3 (CH₂), 24.4 (CH₂). LC/MS m/z : 418, 421 [M+H]⁺.

***1*-(4-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-propylurea (99b)**

Compound **99b** was obtained, in 63% total yield; mp: 190–192 °C; TLC (petroleum ether/ethyl acetate = 6/4) R_f : 0.29. ^1H NMR (400 MHz, DMSO- d_6) δ : 8.42 (1H, s, NH-Ph), 7.78 (1H, s, H-4), 7.57 (1H, s, H-7), 7.33 (2H, d, J = 8.0, H-2', 6'), 7.17 (2H, d, J = 8.0, H-3', 5'), 6.14–6.05 (1H, m, NH-CH₂), 5.77 (2H, s, CH₂), 3.10–2.90 (2H, m, CH₂-NH), 2.31 (6H,

s, 2CH₃), 1.80–1.40 (4H, m, 2CH₂), 1.42–1.30 (2H, q, CH₂CH₃), 0.85 (3H, t, CH₂CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 155.0 (CO), 144.3 (C), 140.7 (C), 134.6 (C), 133.8 (C), 128.5 (2CH), 127.5 (C), 127.1 (C), 120.5 (CH), 116.7 (2CH), 112.5 (CH), 51.0 (CH₂-Ph), 40.8 (CH₂), 22.9 (CH₂), 11.3 (CH₃). LC/MS *m/z* 338 [M+H]⁺.

1-cyclohexyl-3-(4-((5,6-dimethyl-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (100b)

Compound **100b** was obtained, in 48% total yield; mp: 216–218 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.23. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.29 (1H, s, NH-Ph), 7.74 (1H, s, H-4), 7.55 (1H, s, H-7), 7.28 (2H, d, *J* = 8.2, H-2', 6'), 7.15 (2H, d, *J* = 8.0, H-3', 5'), 6.01 (1H, d, *J* = 7.6, NH-CH), 5.74 (2H, s, CH₂), 3.51–3.25 (1H, m, CH), 2.31 (6H, s, 2CH₃), 1.80–1.40 (4H, m, 2CH₂), 1.35–1.00 (6H, m, 3CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 156.6 (CO), 154.2 (C), 144.3 (C), 140.6 (C), 131.8 (C), 130.6 (C), 128.6 (2CH), 127.3 (C), 121.7 (CH), 118.6 (2CH), 112.5 (CH), 51.0 (CH₂Ph), 47.5 (CH-NH), 33.3 (2CH₂), 32.9 (CH₂), 25.3 (CH₂), 24.4 (CH₂). LC/MS *m/z* 378 [M+H]⁺.

1-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-propylurea (101c)

Compound **101c** was obtained, in 39% total yield; mp: 165–167 °C; TLC (diethyl ether) *R_f*: 0.35. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.45 (1H, s, NH-Ph), 8.03 (1H, d, *J* = 7.8, H-4), 7.83 (1H, d, *J* = 7.4, H-7), 7.52 (1H, t, H-5), 7.42 (1H, t, H-6), 7.34 (2H, d, *J* = 8.4, H-3', 5'), 7.23 (2H, d, *J* = 8.4, H-2', 6'), 6.13 (1H, t, NH-CH₂), 5.86 (2H, s, CH₂), 3.10–2.88 (2H, m, CH₂-NH), 1.48–1.35 (2H, q, CH₂CH₃), 0.84 (3H, t, CH₂CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 168.9 (CO), 145.5 (C), 132.8 (C), 131.8 (C), 135.5 (C), 129.2 (2CH), 126.2 (2CH), 121.5 (2CH), 119.6 (CH), 110.0 (CH), 54.7 (CH₂), 40.8 (CH₂), 22.9 (CH₂), 11.3 (CH₃). LC/MS *m/z* 310 [M+H]⁺.

1-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-cyclohexylurea (102c)

Compound **102c** was obtained, in 66% total yield; mp: 141–143 °C; TLC (diethyl ether/ petroleum ether = 8/2) *R_f*: 0.28. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.32 (1H, s, NH-Ph), 8.03 (1H, d, *J* = 8.4, H-4), 7.55 (1H, d, *J* = 8, H-7), 7.55–7.38 (2H, m, H-5,6), 7.32 (2H, d, *J* = 8.2, H-2', 6'), 7.22 (2H, d, *J* = 8.4, H-3', 5'), 6.06 (1H, d, *J* = 7.6, NH-CH), 5.86 (2H, s, CH₂), 3.51–3.25 (1H, m, CH), 1.80–1.40 (4H, m, 2CH₂), 1.35–1.00 (6H, m, 3CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 168.9 (CO), 145.5 (C), 132.8 (C), 131.8 (C), 135.5 (C), 129.2 (2CH), 126.2 (2CH), 121.5 (2CH), 119.6 (CH), 110.0 (CH), 54.7 (CH₂), 47.5 (CH-NH), 33.3 (2CH₂), 32.9 (CH₂), 25.3 (CH₂), 24.4 (CH₂). LC/MS *m/z* 350 [M+H]⁺.

1-(4-((1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-phenylurea (103c)

Compound **103c** was obtained, in 16% total yield; mp: 159–161 °C; TLC (diethyl ether/ petroleum ether = 8/2) *R_f*: 0.31. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 10.24 (1H, s, NH), 8.25 (1H, s, NH-Ph), 8.04 (1H, d, *J* = 8.2, H-4), 7.82 (1H, d, *J* = 8.2, H-7), 7.55 (2H, d, *J* = 8.6, H-3', 5'), 7.48–7.38 (4H, m, arom), 7.32 (2H, d, *J* = 8.4, H-2', 6'), 7.18–7.14 (1H, m, arom), 5.92 (2H, s, CH₂). ¹³C-NMR (DMSO-*d*₆) δ: 168.9 (CO), 145.5 (C), 139.4 (C), 132.8 (C), 131.8 (C), 135.5 (C), 129.2 (2CH), 128.9 (2CH), 126.2 (2CH), 126.10 (CH), 121.8 (2CH), 121.5 (2CH), 119.6 (CH), 110.0 (CH), 54.7 (CH₂). LC/MS *m/z* 344 [M+H]⁺.

1-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-ethylurea (104d)

Compound **104d** was obtained, in 47% total yield; mp: 286–287 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.11. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.46 (H, s, NH-Ph), 8.21 (H, t, H-4), 8.10 (H, t, H-7), 7.36 (2H, d, *J* = 8.4 Hz, H-3', 5'), 7.27 (2H, d, *J* = 8.4 Hz, H-2', 6'), 6.08 (H, t, NH-CH₂), 5.83 (2H, s, CH₂-Ph), 3.11–3.04 (2H, m, CH₂), 1.03 (3H, t, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 151.6 (CO), 149.1 (2CF), 140.6 (C), 140.5 (C), 128.7 (C), 128.6 (2CH), 128.5 (C), 118.4 (2CH), 106.0 (CH), 98.5 (CH), 51.0 (CH₂-Ph), 33.9 (CH₂), 15.4 (CH₃). LC/MS *m/z* 332 [M+H]⁺.

1-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)-3-propylurea (105d)

Compound **105d** was obtained, in 41% total yield; mp: 286–287 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.17. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.45 (H, s, NH-Ph), 8.21 (H, t, H-4), 8.10 (H, t, H-7), 7.35 (2H, d, *J* = 8.8 Hz, H-3', 5'), 7.30 (2H, d, *J* = 8.8 Hz, H-2', 6'), 6.12 (H, t, NH-CH₂), 5.83 (2H, s, CH₂), 3.00 (2H, q, CH₂-NH), 1.41 (2H, q, CH₂-CH₃), 0.84 (3H, t, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 152.3 (CO), 149.2 (2CF), 140.6 (2C), 128.7 (2CH), 127.5 (2C), 117.7 (2CH), 106.1 (CH), 98.4 (CH), 51.0 (CH₂), 40.8 (CH₂), 22.9 (CH₂), 11.3 (CH₃). LC/MS *m/z* 345 [M+H]⁺.

1-butyl-3-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (106d)

Compound **106d** was obtained, in 18% total yield; mp: 193–194 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.26. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.44 (H, s, NH-Ph), 8.21 (H, t, H-4), 8.10 (H, t, H-7), 7.35 (2H, d, *J* = 8.4 Hz, H-3', 5'), 7.26 (2H, d, *J* = 8.4 Hz, H-2', 6'), 6.10 (H, t, NH-CH₂), 5.83 (2H, s, CH₂), 3.05 (2H, t, CH₂-NH), 1.38 (2H, q, CH₂-CH₂), 1.33–1.23 (2H, m, CH₂-CH₂-CH₃), 0.88 (3H, t, CH₃). ¹³C-NMR (DMSO-*d*₆) δ: 155.0 (CO), 149.2 (2CF), 140.6 (2C), 128.7 (2CH), 127.5 (2C), 177.6 (2CH), 106.1 (CH), 98.5 (CH), 51.0 (CH₂-Ph), 32.1 (CH₂), 31.8 (CH₂), 19.5 (CH₂), 13.7 (CH₃). LC/MS *m/z* 360 [M+H]⁺.

1-cyclohexyl-3-(4-((5,6-difluoro-1H-benzo[d][1,2,3]triazol-1-yl)methyl)phenyl)urea (107d)

Compound **107d** was obtained, in 16% total yield; mp: 203–204 °C; TLC (petroleum ether/ethyl acetate = 6/4) *R_f*: 0.32. ¹H NMR (400 MHz, DMSO-*d*₆) δ: 8.36 (H, s, NH-Ph), 8.21 (H, t, H-4), 8.10 (H, t, H-7), 7.34 (2H, d, *J* = 8.8 Hz, H-

3',5'), 7.26 (2H, d, $J = 8.8$ Hz, H-2',6'), 6.08 (H, d, NH-CH), 5.80 (2H, s, CH₂), 3.44-3.40 (H, m, CH-NH), 1.82-1.45 (6H, m, 3CH₂), 1.30-0.98 (4H, m, 2CH₂). ¹³C-NMR (DMSO-*d*₆) δ : 156.6 (CO), 154.2 (C), 149.2 (2CF), 140.6 (C), 140.4 (C), 128.7 (2CH), 128.6 (C), 117.6 (2CH), 106.1 (CH), 98.5 (CH), 51.0 (CH₂), 47.5 (CH), 33.3 (2CH₂), 32.9 (CH₂), 25.2 (CH₂), 24.3 (CH₂). LC/MS m/z 386 [M+H]⁺.

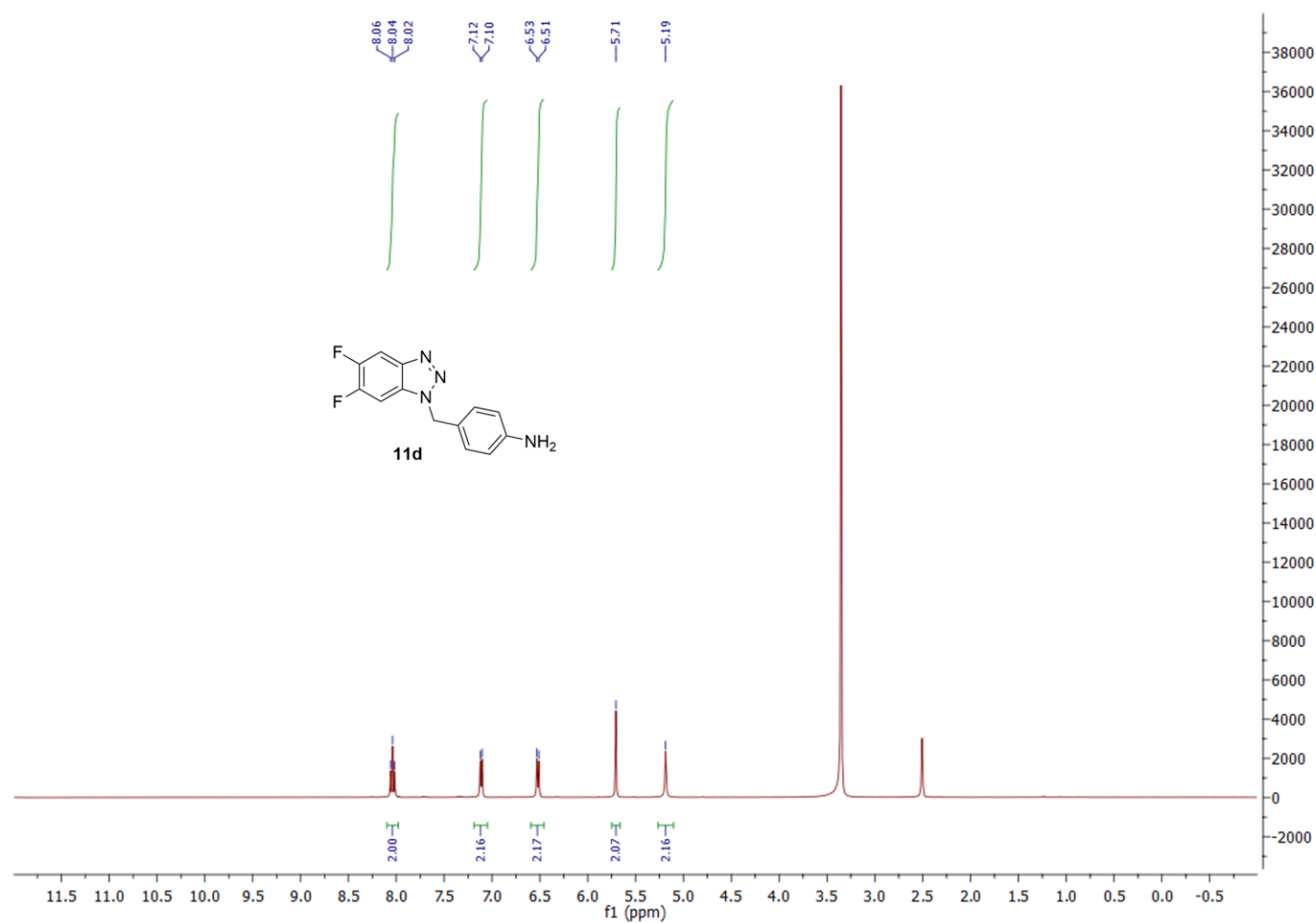


Figure S2. ¹H-NMR for compound **11d**.

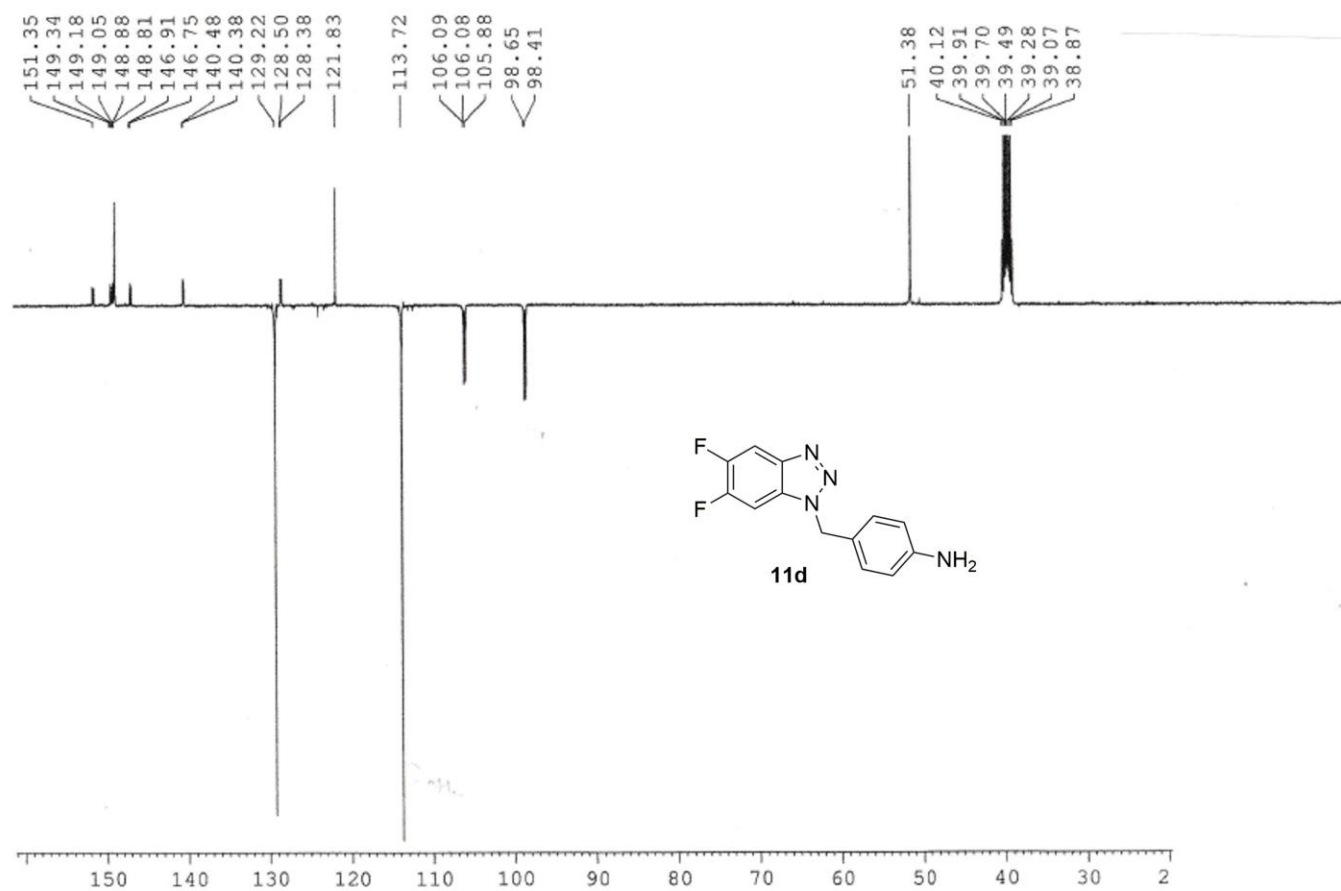


Figure S3. ¹³C-NMR for compound **11d**.

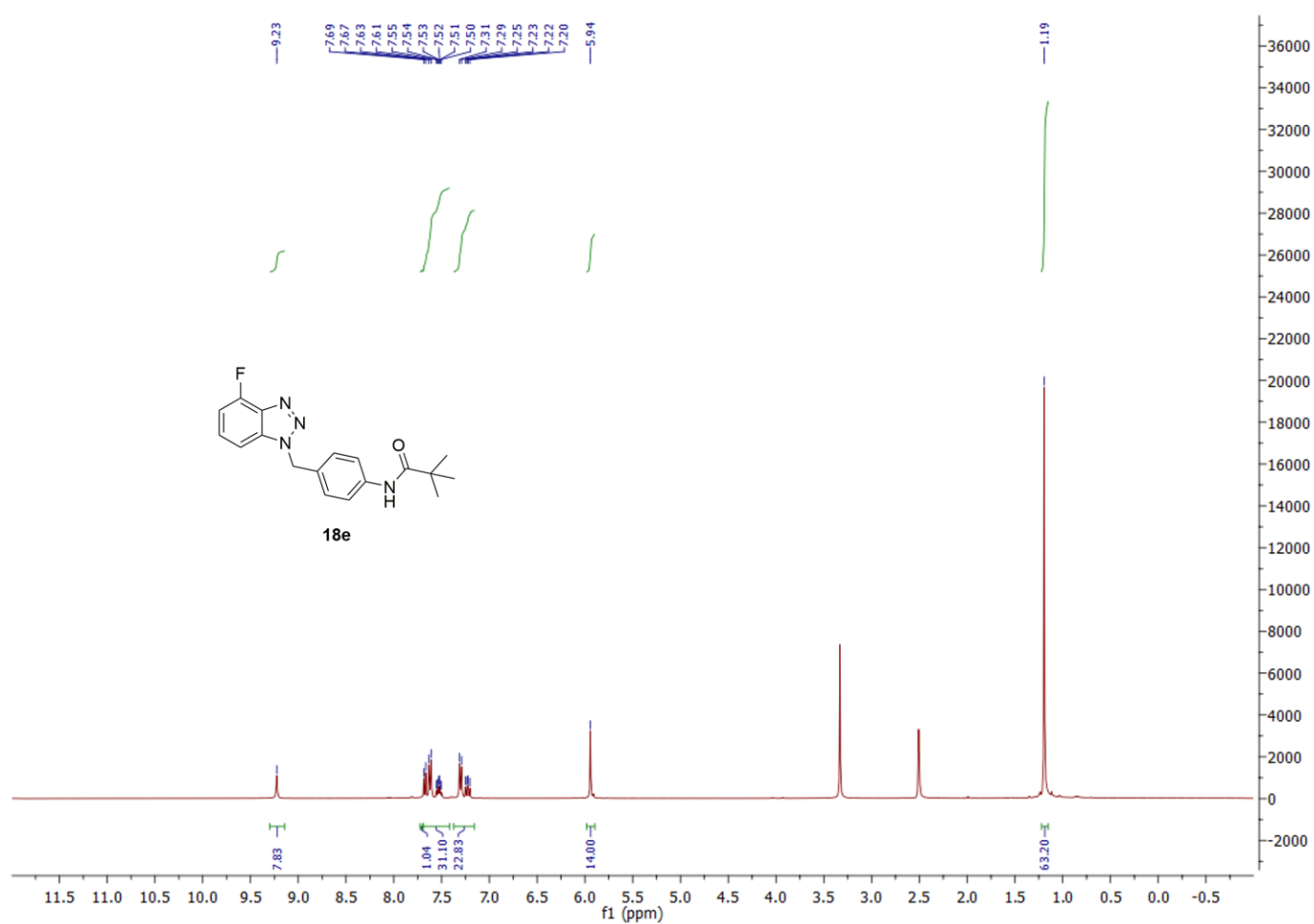


Figure S4. ¹H-NMR for compound **18e**.

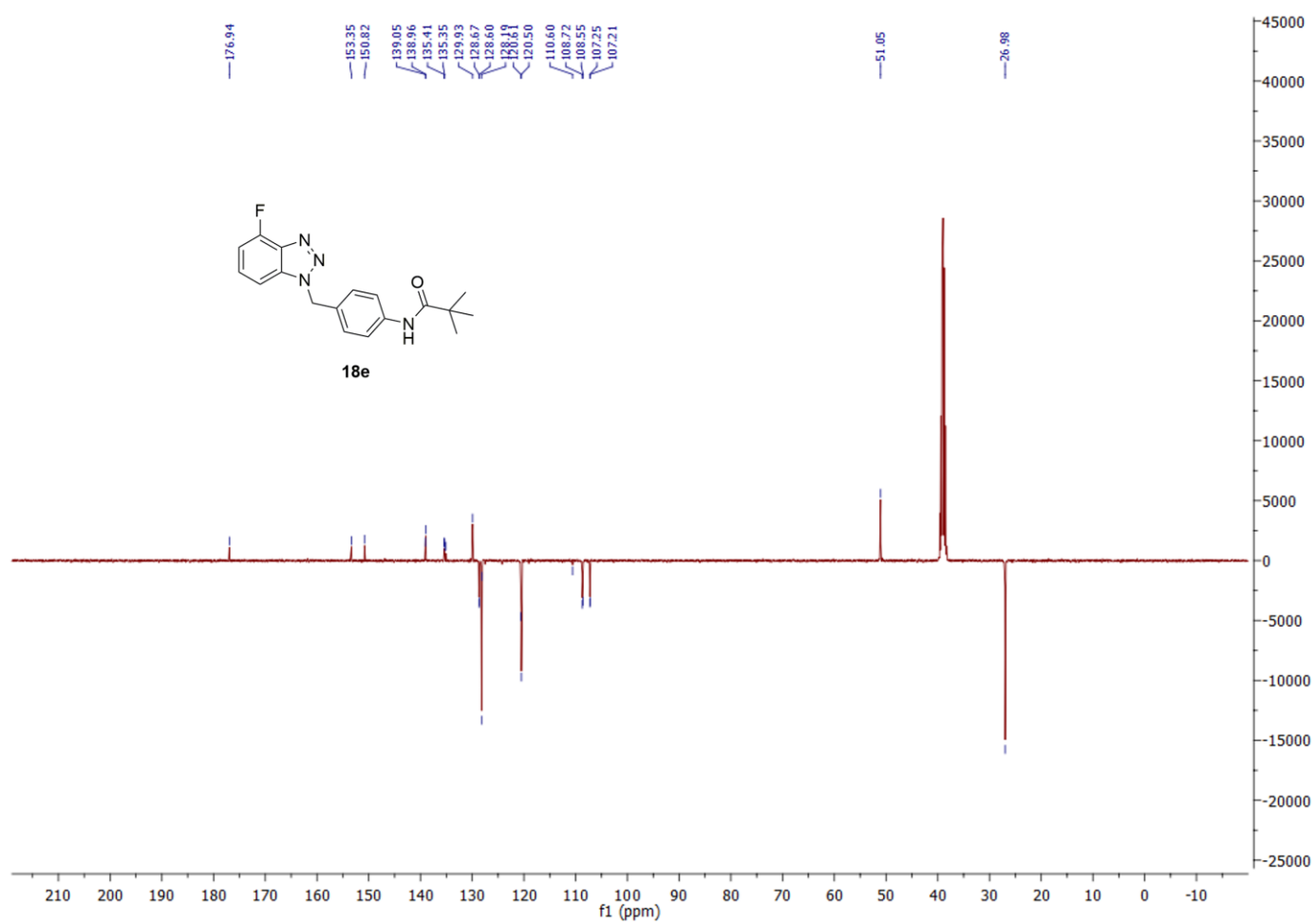


Figure S5. ¹³C-NMR for compound 18e.

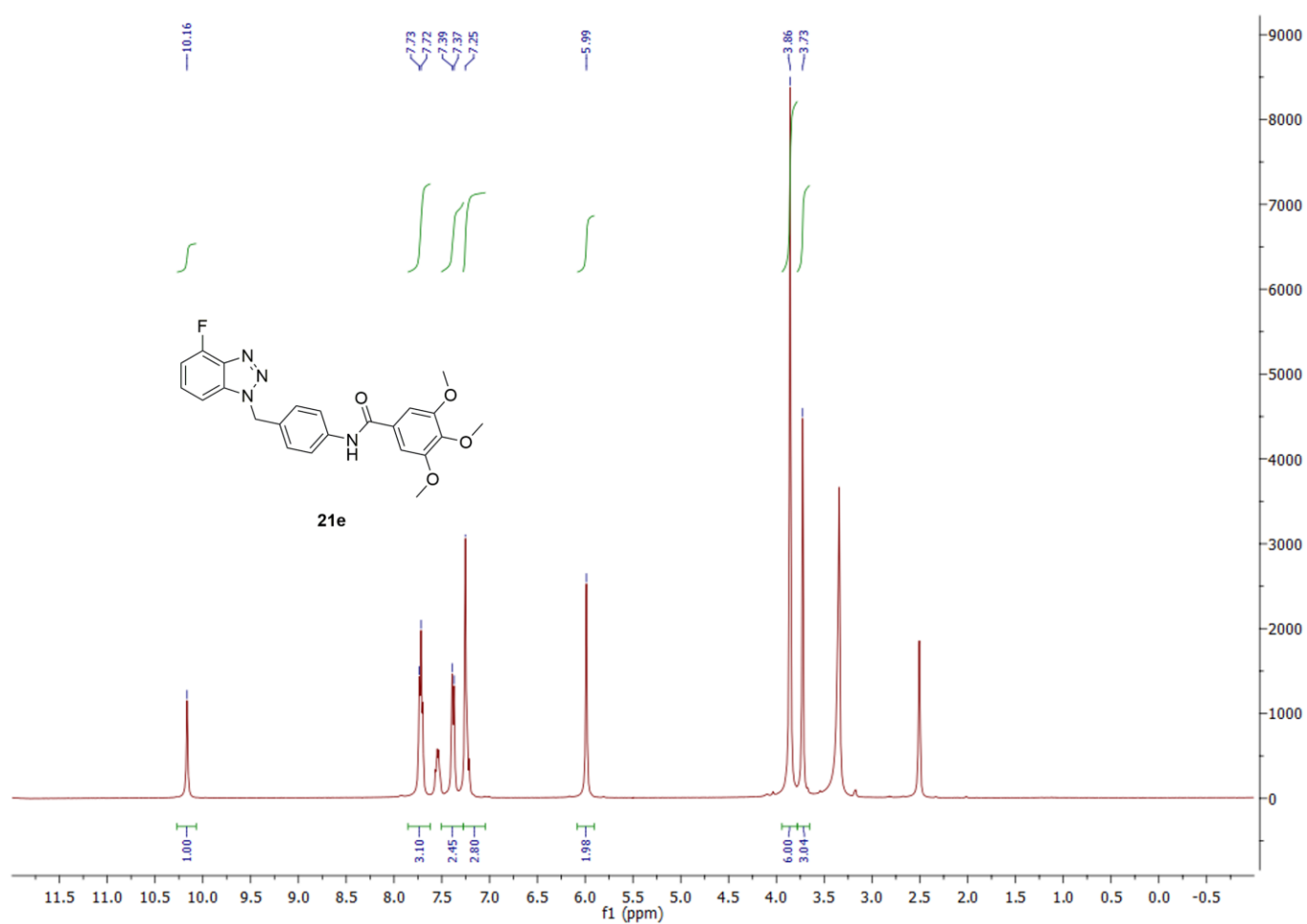


Figure S6. $^1\text{H-NMR}$ for compound **21e**.

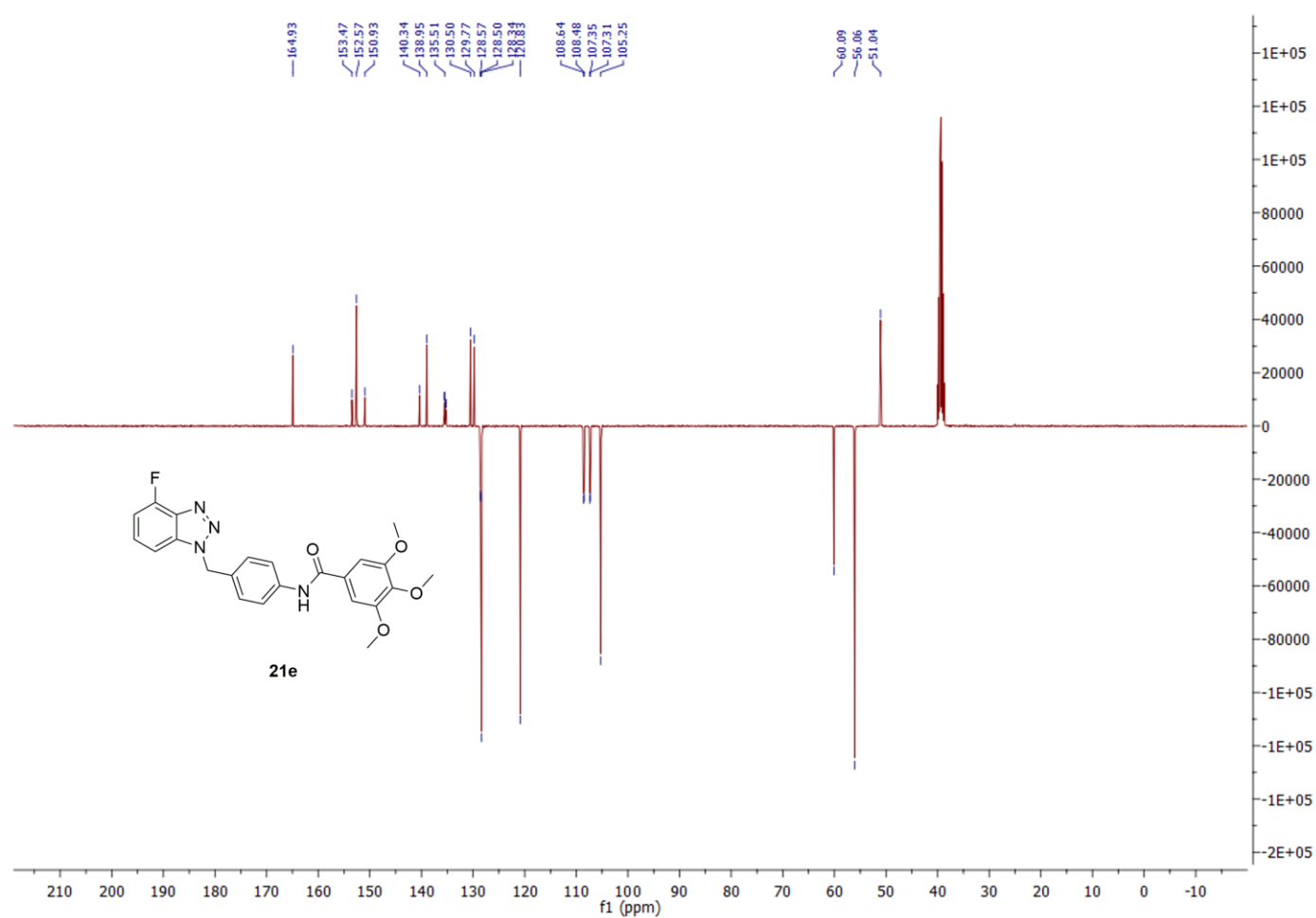


Figure S7. ^{13}C -NMR for compound **21e**.

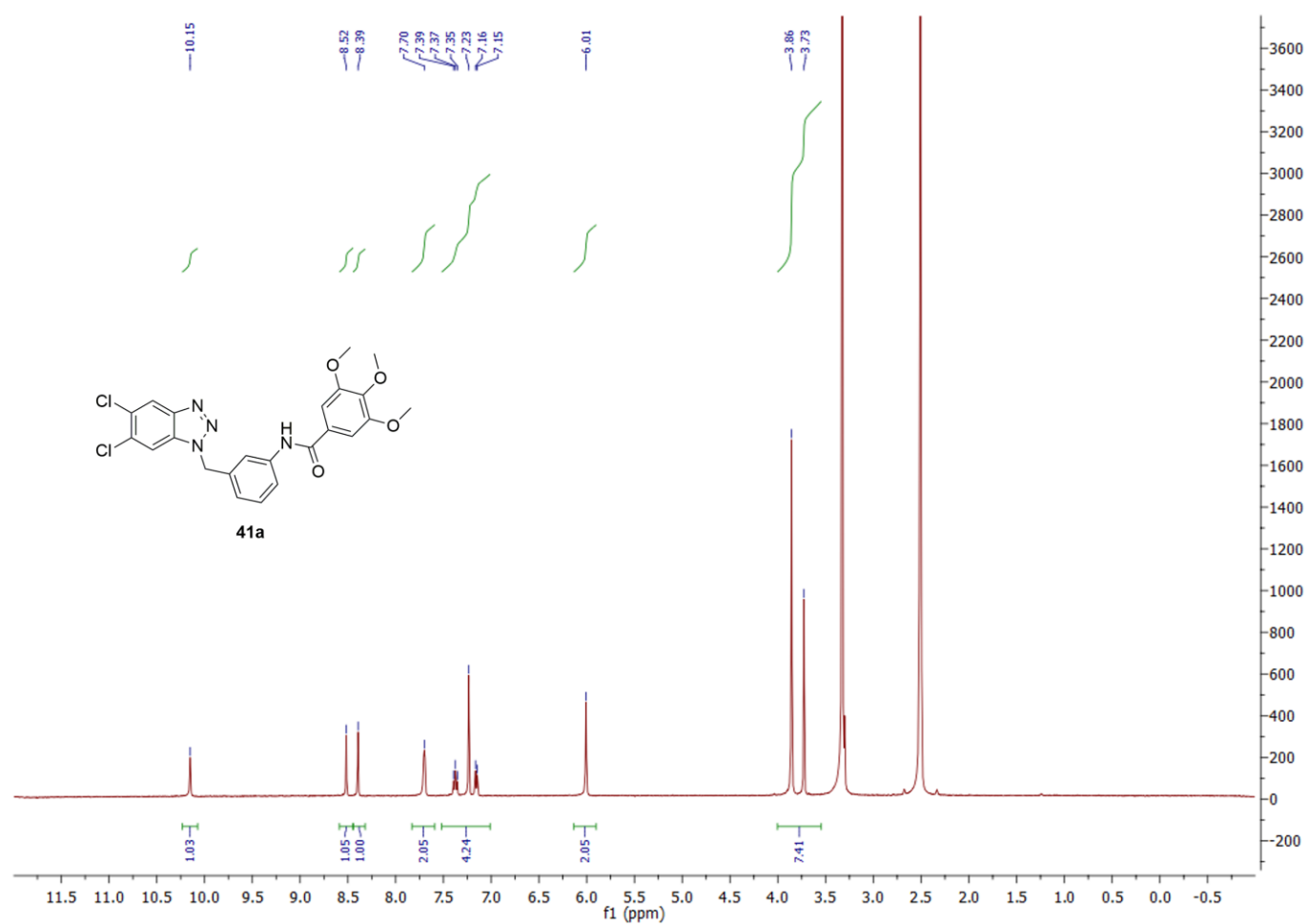


Figure S8. $^1\text{H-NMR}$ for compound **41a**.

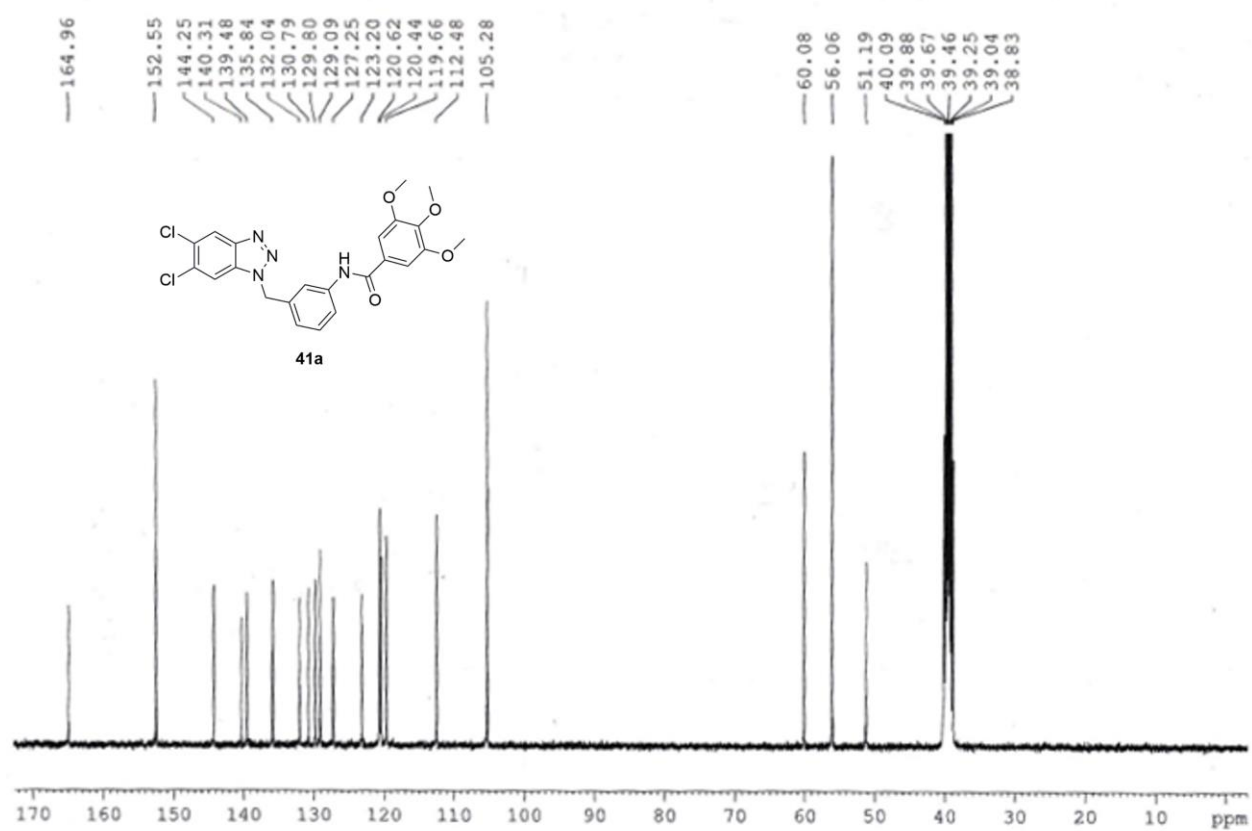
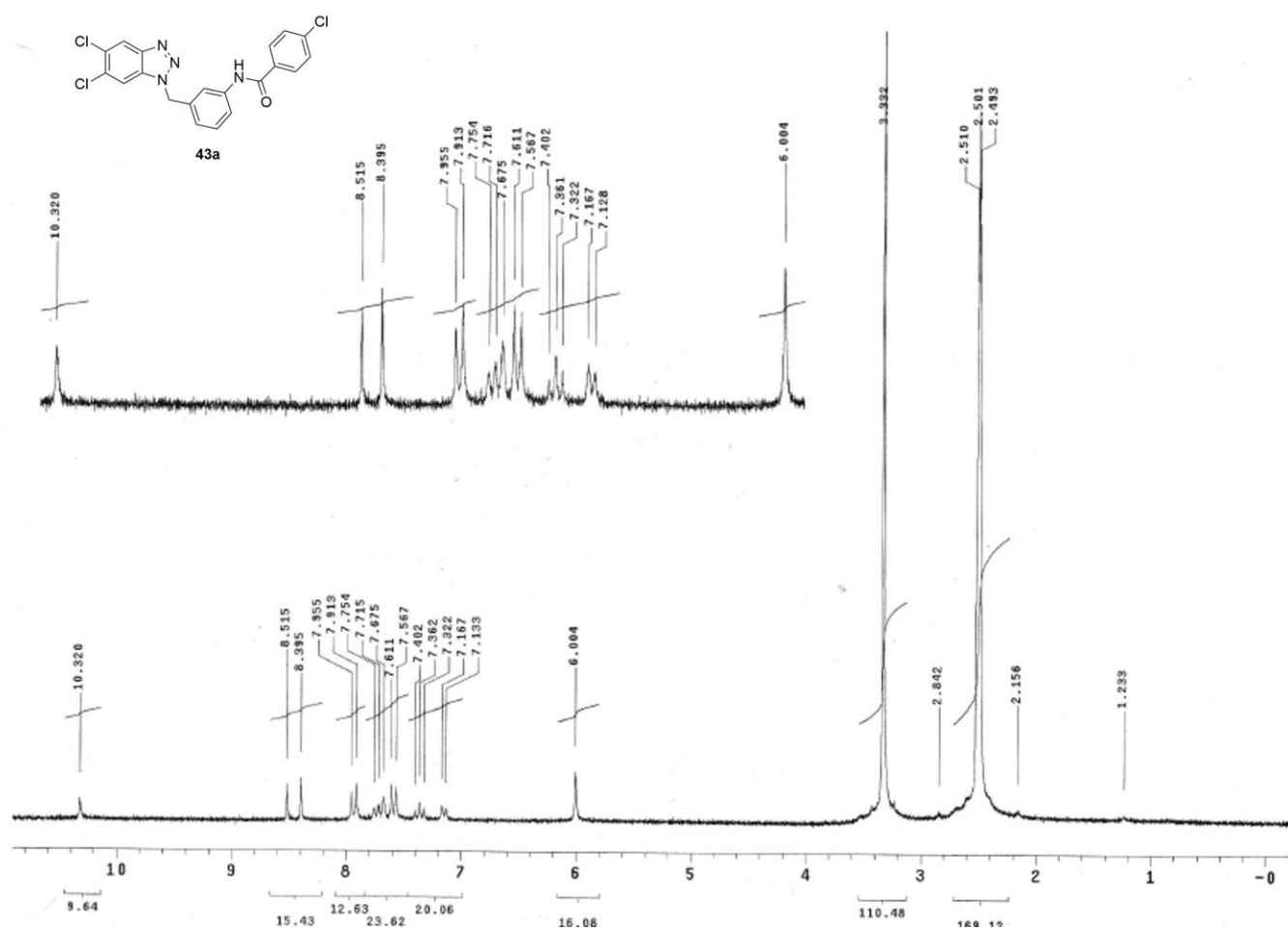


Figure S9. ¹³C-NMR for compound 41a.

Figure S10. ¹H-NMR for compound 43a.

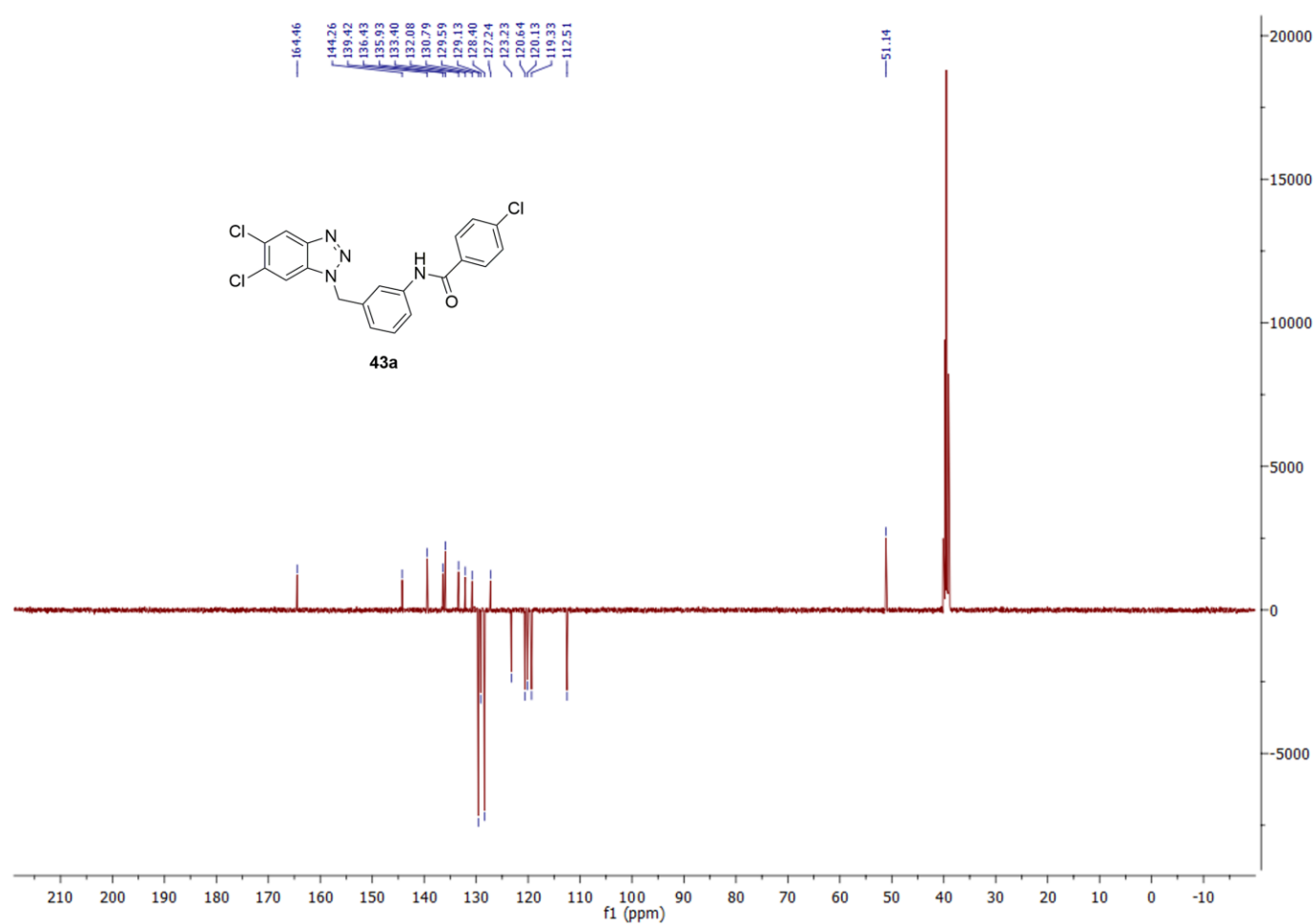


Figure S11. ^{13}C -NMR for compound 43a.

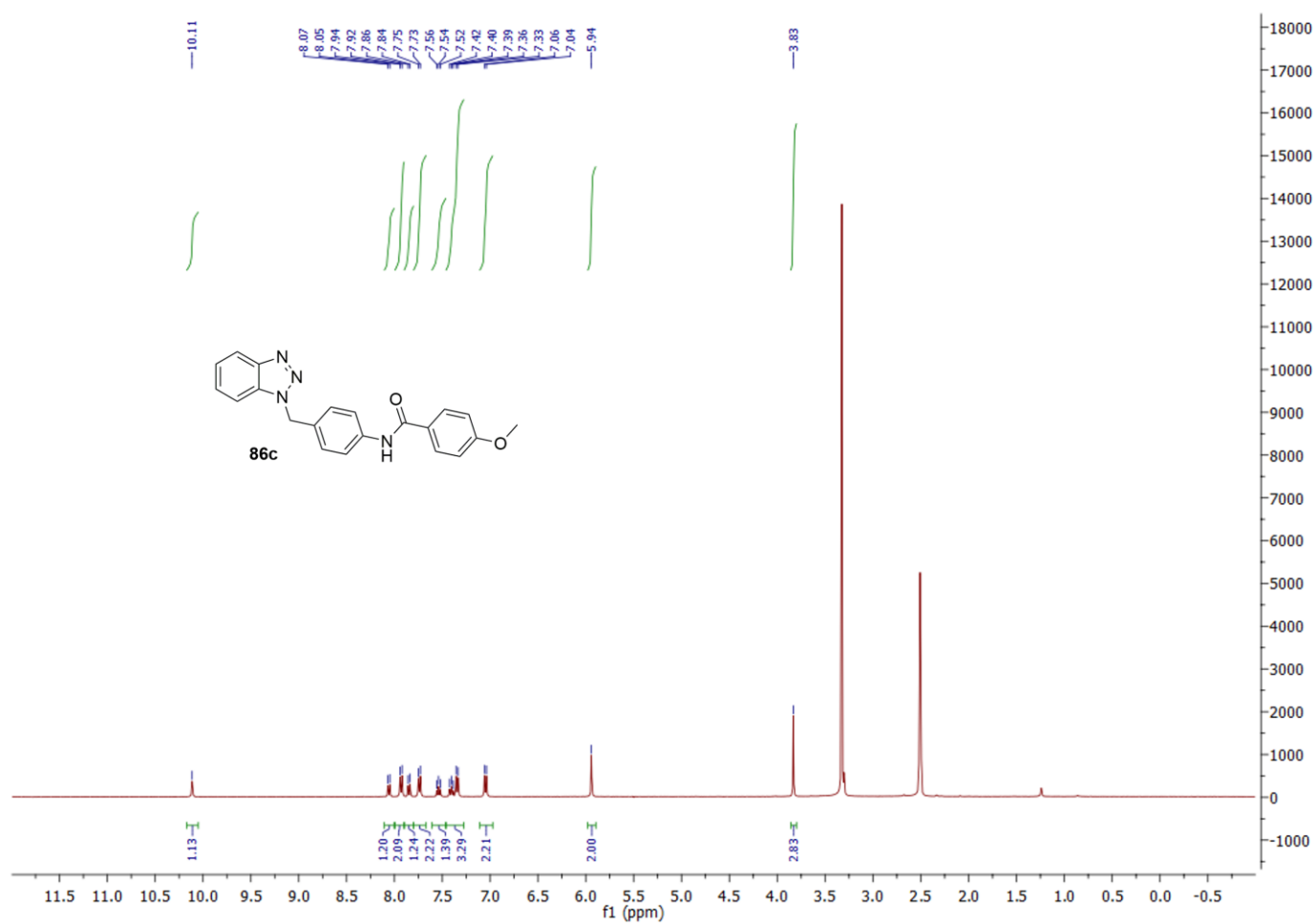


Figure S12. ^1H -NMR for compound **86c**.