Supplementary data for the article:

Bjelaković, M.; Kop, T.; Maslak, V.; Milić, D. Synthesis and Characterization of Highly Ordered Self-Assembled Bioactive Fulleropeptides. *Journal of Materials Science* **2016**, *51* (2), 739–747. https://doi.org/10.1007/s10853-015-9396-z

Electronic Supporting Material

Synthesis and characterization of highly ordered self-assembled bioactive fulleropeptides

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Contents:

Antioxidant activity *in vitro*

FOX reagent preparation [1]

Working FOX reagent was prepared by adding 10 ml of Reagent 1 (98 mg of $(NH_4)_2Fe(SO_4)_2x6H_2O$ in 100 ml of 250 mM H_2SO_4) to 900 ml of Reagent 2 (95 mg of Xylenol Orange (XO) Na salt and 880 mg of 2,6-di-*t*-butyl-4-methylphenol (BHT) in 900 ml of MeOH) giving the final concentrations of 250 μM $(NH_4)_2Fe(SO_4)_2$, 125 μM XO, 25 mM H_2SO_4, and 4 mM BHT. The complete reagent was used within 24 h or a new batch was made. The absorbance of the Fe^{3+}-XO complex was measured at 560 nm by UV-vis spectroscopy (GBC-Cintra 40) with 90% MeOH as a zero probe.
The procedure includes preparing a standard calibration curve using increasing concentrations (0-200 μM) of TBHP incubated with a FOX reagent at room temperature for 30 min until color formation is complete. 2mM Standard solution of TBHP was prepared by dilution with MeOH.

Standard probe preparation

The standard solution of TBHP was prepared in the same manner without the sample aliquot, which was substituted with H_2O. After incubation the absorbance was determined at 560 nm (A_S).

Blank probe preparation

In all experiments a blank was carried out for determination of the possible activity in the absence of substrate during the incubation period. The blank contained 0.950 ml of FOX reagent and 0.050 ml of H_2O instead of the sample. After incubation the absorbance was determined at 560 nm (A_0).

[1] Gao S, Miller M, Han XQ (2005) Peptide antioxidants from soy protein, EP 1 593 685 A1

Vitamin C, well-known antioxidant, was used as a positive control. The absorbance read at the spectrophotometer for each sample varies in relation to the concentration of TBHP contained in the sample being tested. All analyses were performed in triplicate and average values were taken. The direct antioxidant activity (the percentage of consumed TBHP, Δ) was calculated from the equation

$$\Delta = 100 \times (A-A_s)/(A_s-A_0)$$

where A, A_s, and A_0 represent absorbances of the tested compound, starting (TBHP+FOX), and blank (FOX) probes, respectively. Obtained values are recalculated to the activities relative to the equimolar concentration of vitamin C according to the formula:

$$\text{Aox vs vit C} = (\Delta/\Delta_{\text{vit C}})/(M/M_{\text{vit C}})$$

where Δ and Δvit C represent the direct antioxidant capacity of the tested compound and vitamin C, respectivelly and M and $M_{\text{vit C}}$ their molecular weights.

Probe preparation

Aliquots of 0.050 mL of prepared solutions of fullerosomes (0.02 mg/mL concentrated), were mixed with the 0.050 mL of the 2mM solution of peroxide and diluted with 0.900 mL of water (corresponds to mixed 0.002mg/mL of sample solution and 200µM standard peroxide solution in 1:1 (V/V) ratio). Mixture was than vortexed for 1 min and incubated in stoppered vial at room temperature, for 10 min. From each incubated mixture three aliquots of 0.050 mL were taken and mixed with 0.950 mL of FOX reagent. Absorbance (A) at 560 nm was measured after 80 min of incubation at room temperature, in aim to determine the percentage of consumed peroxide (direct antioxidant activity).

Spectral data of compounds 1-12

Fullerene carbons are labelled as C_f, and pyrrolidinic nuclei as C/H^{pyrr}. The glycine moieties incorporated into the peptide backbones are labelled as Gly^1, Gly^2 and Gly^3 starting from the C terminus. Corresponding GABA-fragments are labelled in the same manner as G, G' and G" and their atoms are numbered in the order of priority. For the clarity purpose, the example of the hexapeptide **12** with schematic representation of the numbering is given below Table S1 (page S6).

Fp-GABA-OH (Fp-G-OH) 1 (IR, UV and mass spectra were in accordance with the published data [2].

Starting from *tert*-butyl ester (1.19 g, 1.31 mmol) in TFA/DCM (1:1, 40 mL) the acid **1** (1.10 g, 99%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OD$): δ= 4.4 ($CH_2^{pyrr.}$,overlapped with CD_3OH signal), 3.26 (t, *J*=7.0 Hz, 2H, CH_2^4), 2.73 (t, *J*=7.0 Hz, 2H, CH_2^2), 2.31 (quintet, *J*=7.0 Hz, 2H, CH_2^3); ^{1}H NMR (500 MHz, $CDCl_3/CF_3COOD$): δ= 5.84 (d, *J*=12.0 Hz, 2H, $CH_2^{pyrr.}$), 5.07 (d, *J*=12.0 Hz, 2H, $CH_2^{pyrr.}$), 4.23 (t, *J*=8.0 Hz, 2H, CH_2^4), 2.94 (t, *J*=6.5 Hz, 2H, CH_2^2), 2.65 (quintet, *J*=6.5 Hz, 2H, CH_2^3); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CF_3COOD$): δ=179.81 (COOH), 150.07, 149.75, 148.00, 147.01, 146.91, 146.80, 146.69, 146.43, 146.27, 145.95, 145.91, 145.50, 144.98, 144.87, 144.68, 144.20, 143.33, 143.29, 142.69, 142.55, 142.54, 142.34, 141.93, 141.82, 140.86, 140.84, 136.45, 135.91, 68.00 (C_f-1, 9), 66.04 ($CH_2^{pyrr.}$), 55.39 (CH_2^4), 30.88 (CH_2^2), 20.77 (CH_2^3).

Fp-GABA$_2$-OH (Fp-G'-G-OH) 2

Starting from *tert*-butyl ester (130 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **2** (120 mg, 99%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=7.58 (br.t, *J*=5.0 Hz, 1H, NH^{GABA}), 4.66 (s, 4H, $CH_2^{pyrr.}$), 3.33 (t, *J*=6.5 Hz, 2H, $CH_2^{4'}$), 3.32 (q, *J*=7.0 Hz, 2H, CH_2^4), 2.58 (t, *J*=7.0 Hz, 2H, $CH_2^{2'}$), 2.37 (t, *J*=7.0 Hz, 2H, CH_2^2), 2.30 (quintet, *J*=7.0 Hz, 2H, $CH_2^{3'}$), 1.87 (quintet, *J*=7.0 Hz, 2H, CH_2^3); ^{13}C NMR (125

[2] Bjelakovic MS, Godjevac DM, Milic DR (2007) Synthesis and antioxidant properties of fullero-steroidal covalent conjugates, Carbon 45:2260-2265.

MHz, $CDCl_3/CS_2/CD_3OH$): δ=175.61 (COOH), 173.62 (CONH), 153.64 (C_f-2, 5, 8, 10), 147.03 (C_f-52, 60), 145.98 (C_f-32, 39, 41, 48), 145.79 (C_f-3, 4, 25, 26), 145.43 (C_f-51, 53, 56, 59), 145.30 (C_f-21, 30), 145.21 (C_f-14, 19, 23, 28), 145.00 (C_f-49, 50, 54, 55), 144.21 (C_f-33, 38, 42, 47), 142.80 (C_f-31, 40), 142.36 (C_f-35, 36, 57, 58), 141.78 (C_f-13, 20, 22, 29), 141.75 (C_f-34, 37, 43, 46), 141.62 (C_f-16, 17, 44, 45), 139.88 (C_f-15, 18, 24, 27), 135.89 (C_f-6, 7, 11, 12), 69.67 (C_f-1, 9), 66.71 ($CH_2^{pyrr.}$), 53.93 ($CH_2^{4'}$), 38.81 (CH_2^{4}), 33.63 ($CH_2^{2'}$), 31.30 (CH_2^{2}), 24.31 (CH_2^{3}), 23.55 ($CH_2^{3'}$); IR: *ν*=3438, 2928, 1672, 1429, 1186, 1137 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3500), 324 (38000), 305 (37000), 257 nm (98000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{70}H_{19}N_2O_3$: 935.13902 $[M+H]^{+}$`, found 935.14058.

Fp-GABA$_3$-OH(Fp-G''-G'-G-OH) 3

Starting from *tert*-butyl ester (140 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **3** (131 mg, 99%) was obtained. ^{1}H NMR(500 MHz, $CDCl_3/CS_2$): δ=7.72 (br.t, *J*=6.0 Hz, 1H, $NH^{GABA'}$), 7.52 (br.t, *J*=5.5 Hz, 1H, NH^{GABA}), 4.62 (s, 4H, $CH_2^{pyrr.}$), 3.31 (t, *J*=7.0 Hz, 2H, $CH_2^{4''}$), 3.27 (q, *J*=7.0 Hz, 2H, $CH_2^{4'}$), 3.26 (t, *J*=7.0 Hz, 2H, CH_2^{4}), 2.57 (t, *J*=7.5 Hz, 2H, $CH_2^{2''}$), 2.34 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.30 (quintet, *J*=7.0 Hz, 2H, $CH_2^{3''}$), 2.23 (t, *J*=7.5 Hz, 2H, $CH_2^{2'}$), 1.83 (quintet, *J*=7.0 Hz, 2H, $CH_2^{3'}$), 1.82 (quintet, *J*=7.0 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3$): δ=175.71 (COOH), 173.82 ($CO^{GABA''}$), 173.77 ($CO^{GABA'}$), 153.85 (C_f-2, 5, 8, 10), 147.09 (C_f-52, 60), 146.03 (C_f-32, 39, 41, 48), 145.84 (C_f-3, 4, 25, 26), 145.53 (C_f-51, 53, 56, 59), 145.37 (C_f-21, 30), 145.25 (C_f-14, 19, 23, 28), 145.06 (C_f-49, 50, 54, 55), 144.28 (C_f-33, 38, 42, 47), 142.86 (C_f-31, 40), 142.41 (C_f-35, 36, 57, 58), 141.83 (C_f-13, 20, 22, 29), 141.83 (C_f-34, 37, 43, 46), 141.68 (C_f-16, 17, 44, 45), 139.93 (C_f-15, 18, 24, 27), 135.95 (C_f-6, 7, 11, 12), 69.83 (C_f-1, 9), 66.91 ($CH_2^{pyrr.}$), 54.04 ($CH_2^{4''}$), 38.82, 38.79 ($CH_2^{4,4'}$), 33.76 ($CH_2^{2''}$), 33.32 ($CH_2^{2'}$), 31.35 (CH_2^{2}), 25.19 ($CH_2^{3'}$), 24.23 (CH_2^{3}), 23.83 ($CH_2^{3''}$); IR: *ν*=3423, 3306, 3093, 2935, 1648, 1554, 1429, 1186 1137 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3600), 322 (38000), 304 (37000), 257 nm (110000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{74}H_{26}N_3O_4$: 1020.19178 $[M+H]^+$, found 1020.19315.

Fp-GABA-Gly-OH(Fp-G-Gly-OH) 4

Starting from *tert*-butyl ester (125 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **4** (117 mg, 99%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=7.76 (br.t, *J*=5.5 Hz, 1H, NH^{Gly}), 4.52 (s, 4H, $CH_2^{pyrr.}$), 3.98 (d, *J*=5.5 Hz, 2H, CH_2^{Gly}), 3.23 (t, *J*=7.0 Hz, 2H, CH_2^{4}), 2.64 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.28 (quintet, *J*=7.0 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3$): δ=173.72 (CONH), 171.31 (COOH), 154.15 (C_f-2, 5, 8, 10), 146.82 (C_f-52, 60), 145.77 (C_f-32, 39, 41, 48), 145.59 (C_f-3, 4, 25, 26), 145.46 (C_f-51, 53, 56, 59), 145.17 (C_f-21, 30), 144.98 (C_f-14, 19, 23, 28), 144.81 (C_f-49, 50, 54, 55), 144.06 (C_f-33, 38, 42, 47), 142.62 (C_f-31, 40), 142.16 (C_f-35, 36, 57, 58), 141.69 (C_f-13, 20, 22, 29), 141.61 (C_f-34, 37, 43, 46), 141.43 (C_f-16, 17, 44, 45), 139.71 (C_f-15, 18, 24, 27), 135.70 (C_f-6, 7, 11, 12), 69.92 (C_f-1, 9), 67.04 ($CH_2^{pyrr.}$), 53.47 (CH_2^{4}), 40.68 (CH_2^{Gly}), 33.20 (CH_2^{2}), 23.78 (CH_2^{3}); IR: *ν*=3428, 2925, 1656, 1638, 1545, 1187, 1138cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (1900), 324 (16000), 303 (17000), 256 nm (60000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{68}H_{15}N_2O_3$: 907.10772 $[M+H]^+$, found 907.10514.

Fp-GABA-Gly$_2$-OH (Fp-G-Gly^2-Gly^1-OH) 5

Starting from *tert*-butyl ester (133 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **5** (124 mg, 99%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=7.93 (br.t, *J*=5.0 Hz, 1H, NH^{Gly2}), 7.86 (br.t, *J*=5.0 Hz, 1H, NH^{Gly1}), 4.58 (s, 4H, $CH_2^{pyrr.}$), 3.95 (d, *J*=5.5 Hz, 2H, CH_2^{Gly2}), 3.94 (d, *J*=6.0 Hz, 2H, CH_2^{Gly1}), 3.28 (t, *J*=7.0 Hz, 2H, CH_2^{4}), 2.65 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.29 (quintet, *J*=7.0 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=173.92 (CO^{GABA}), 171.19 (COOH), 169.71 (CO^{Gly2}), 153.96 (C_f-2, 5, 8, 10), 146.87 (C_f-52, 60), 145.83 (C_f-32, 39, 41, 48), 145.64 (C_f-3, 4, 25, 26), 145.44 (C_f-51, 53, 56, 59), 145.20 (C_f-21, 30), 145.04 (C_f-14, 19, 23, 28), 144.86 (C_f-49, 50, 54, 55), 144.10 (C_f-33, 38, 42, 47), 142.66 (C_f-31, 40), 142.22 (C_f-35, 36, 57, 58), 141.69 (C_f-13, 20, 22, 29), 141.65 (C_f-34, 37, 43, 46), 141.48 (C_f-16, 17, 44, 45), 139.74 (C_f-15, 18, 24, 27), 135.77 (C_f-6, 7, 11, 12), 69.81 (C_f-1, 9), 66.92 ($CH_2^{pyrr.}$), 53.71 (CH_2^{4}), 42.20 (CH_2^{Gly2}), 40.55 (CH_2^{Gly1}), 33.22 (CH_2^{2}), 23.63 (CH_2^{3}); IR: *ν*=3432, 2926, 1669, 1540, 1423, 1188, 1136, 1032 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3700), 321 (38000), 305 (39000), 254 nm (110000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{70}H_{18}N_3O_4$: 964.12918 $[M+H]^+$, found 964.13113.

Fp-GABA-Gly$_3$-OH (Fp-G-Gly^3-Gly^2-Gly^1-OH) 6

Starting from *tert*-butyl ester (140 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **6** (135 mg, 98%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=8.09 (br.t, *J*=5.5 Hz, 1H, NH^{Gly3}), 8.06 (br.t, *J*=5.0 Hz, 1H, NH^{Gly2}), 7.91 (br.t, *J*=6.0 Hz, 1H, NH^{Gly1}), 4.60 (s, 4H, $CH_2^{pyrr.}$), 3.942 (d, *J*=5.5 Hz, 2H, CH_2^{Gly1}), 3.934 (d, *J*=5.5 Hz, 2H, CH_2^{Gly3}), 3.931 (d, *J*=6.0 Hz, 2H, CH_2^{Gly2}), 3.30 (t, *J*=7.0 Hz, 2H, CH_2^{4}), 2.66 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.30 (quintet, *J*=7.5 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=174.38 (CO^{GABA}), 171.39 (COOH), 170.10 (CO^{Gly3}), 169.82 (CO^{Gly2}), 153.91 (C_f-2, 5, 8, 10), 146.91 (C_f-52, 60), 145.87 (C_f-32, 39, 41, 48), 145.68 (C_f-3, 4, 25, 26), 145.44 (C_f-51, 53, 56, 59), 145.22 (C_f-21, 30), 145.08 (C_f-14, 19, 23, 28), 144.90 (C_f-49, 50, 54, 55), 144.13 (C_f-33, 38, 42, 47), 142.70 (C_f-31, 40), 142.25 (C_f-35, 36, 57, 58), 141.71 (C_f-13, 20, 22, 29), 141.68 (C_f-34, 37, 43, 46), 141.52 (C_f-16, 17, 44, 45), 139.78 (C_f-15, 18, 24, 27), 135.79 (C_f-6, 7, 11, 12), 69.80 (C_f-1, 9), 66.90 ($CH_2^{pyrr.}$), 53.75 (CH_2^{4}), 42.62 (CH_2^{Gly3}), 42.05 (CH_2^{Gly2}), 40.55 (CH_2^{Gly1}), 33.18 (CH_2^{2}), 23.54 (CH_2^{3}); IR: *ν*=3407, 2928, 1662, 1543, 1424, 1190, 1136, 1078, 1030 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3500), 322 (30000), 305 (31000), 257 nm (98000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{72}H_{21}N_4O_5$: 1021.15065 $[M+H]^+$, found 1021.15062.

Fp-GABA$_2$-Gly-OH (Fp-G'-G-Gly-OH) 7

Starting from *tert*-butyl ester (136 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **7** (126 mg, 98%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=7.76 (br.t, *J*=5.5 Hz, 1H, NH^{Gly}), 7.74 (br.t, *J*=5.5 Hz, 1H, NH^{GABA}), 4.70 (s, 4H, $CH_2^{pyrr.}$), 3.94 (d, *J*=5.5 Hz, 2H, CH_2^{Gly}), 3.36 (t, *J*=7.5 Hz, 2H, $CH_2^{4'}$), 3.31 (q, *J*=6.5 Hz, 2H, CH_2^{4}), 2.56 (t, *J*=7.0 Hz, 2H, $CH_2^{2'}$), 2.31 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.30 (quintet, *J*=7.0 Hz, 2H, $CH_2^{3'}$), 1.87 (quintet, *J*=7.0 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=173.98 (CO^{GABA}), 173.74 ($CO^{GABA'}$), 171.69 (COOH), 153.50 (C_f-2, 5, 8, 10), 147.04 (C_f-52, 60), 146.00 (C_f-32, 39, 41, 48), 145.80 (C_f-3, 4, 25, 26), 145.39 (C_f-51, 53, 56, 59), 145.31 (C_f-21, 30), 145.23 (C_f-14, 19, 23, 28), 145.02 (C_f-49, 50, 54, 55), 144.22 (C_f-33, 38, 42, 47), 142.81 (C_f-31, 40), 142.37 (C_f-35, 36, 57, 58), 141.79 (C_f-13, 20, 22, 29), 141.73 (C_f-34, 37, 43, 46), 141.64 (C_f-16, 17, 44, 45), 139.89 (C_f-15, 18, 24, 27), 135.93 (C_f-6, 7, 11, 12), 69.58 (C_f-1, 9), 66.61 ($CH_2^{pyrr.}$), 54.07 ($CH_2^{4'}$), 40.87 (CH_2^{Gly}), 38.76 (CH_2^{4}), 33.61 ($CH_2^{2'}$), 33.00 (CH_2^{2}), 24.89 (CH_2^{3}), 23.54 ($CH_2^{3'}$); IR: *ν*=3431, 2924, 2854, 1638, 1544, 1430, 1185, 1134, 1077 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3700), 323 (30000), 306 (32000), 257 nm (97000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{72}H_{22}N_3O_4$: 992.16048 $[M+H]^+$, found 992.16218.

Fp-GABA$_2$-Gly$_2$-OH (Fp-G'-G-Gly^2-Gly^1-OH) 8

Starting from *tert*-butyl ester (144 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **8** (133 mg, 98%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=7.92 (br.t, *J*=6.0 Hz, 1H, NH^{Gly2}), 7.85 (br.t, *J*=5.5 Hz, 1H, NH^{Gly1}), 7.68 (br.t, *J*=5.0 Hz, 1H, NH^{GABA}), 4.50 (s, 4H, $CH_2^{pyrr.}$), 3.95 (d, *J*=5.5 Hz, 2H, CH_2^{Gly1}), 3.91 (d, *J*=5.5 Hz, 2H, CH_2^{Gly2}), 3.29 (q, *J*=6.5 Hz, 2H, CH_2^{4}), 3.18 (t, *J*=7.0 Hz, 2H, $CH_2^{4'}$), 2.55 (t, *J*=7.0 Hz, 2H, $CH_2^{2'}$), 2.32 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.26 (quintet, *J*=7.0 Hz, 2H, $CH_2^{3'}$), 1.86 (quintet, *J*=7.0 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=174.04 (CO^{GABA}), 173.86 ($CO^{GABA'}$), 171.47 (CO^{Gly1}), 170.04 (CO^{Gly2}), 154.32 (C_f-2, 5, 8, 10), 146.95 (C_f-52, 60), 145.90 (C_f-32, 39, 41, 48), 145.72 (C_f-3, 4, 25, 26), 145.60 (C_f-51, 53, 56, 59), 145.29 (C_f-21, 30), 145.10 (C_f-14, 19, 23, 28), 144.94 (C_f-49, 50, 54, 55), 144.19 (C_f-33, 38, 42, 47), 142.75 (C_f-31, 40), 142.29 (C_f-35, 36, 57, 58), 141.80 (C_f-13, 20, 22, 29), 141.72 (C_f-34, 37, 43, 46), 141.55 (C_f-16, 17, 44, 45), 139.83 (C_f-15, 18, 24, 27), 135.83 (C_f-6, 7, 11, 12), 70.09 (C_f-1, 9), 67.28 ($CH_2^{pyrr.}$), 53.92 ($CH_2^{4'}$), 42.28 (CH_2^{Gly2}), 40.73 (CH_2^{Gly1}), 38.41 (CH_2^{4}), 33.73 ($CH_2^{2'}$), 32.71 (CH_2^{2}), 24.95 (CH_2^{3}), 24.14 ($CH_2^{3'}$); IR: *ν*=3423, 2924, 1671, 1543, 1428, 1202, 1136 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3800), 324 (30000), 307 (31000), 259 nm (90000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{74}H_{25}N_4O_5$: 1049.18195 $[M+H]^+$, found 1049.18362.

Fp-GABA$_2$-Gly$_3$-OH (Fp-G'-G-Gly^3-Gly^2-Gly^1-OH) 9

Starting from *tert*-butyl ester (151 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **9** (142 mg, 99%) was obtained. ^{1}H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=8.16 (br.t, *J*=6.0 Hz, 1H, NH^{Gly2}), 8.13 (br.t, *J*=6.0 Hz, 1H, NH^{Gly3}), 7.91 (br.t, *J*=5.5 Hz, 1H, NH^{Gly1}), 7.78 (br.t, *J*=6.0 Hz, 1H, NH^{GABA}), 4.53 (s, 4H, $CH_2^{pyrr.}$), 3.92 (d, *J*=5.5 Hz, 2H, CH_2^{Gly1}), 3.91 (d, *J*=5.5 Hz, 2H, CH_2^{Gly2}), 3.85 (d, *J*=6.0 Hz, 2H, CH_2^{Gly3}), 3.26 (q, *J*=6.5 Hz, 2H, CH_2^{4}), 3.20 (t, *J*=7.0 Hz, 2H, $CH_2^{4'}$), 2.54 (t, *J*=7.5 Hz, 2H, $CH_2^{2'}$), 2.31 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.25 (quintet, *J*=7.5 Hz, 2H, $CH_2^{3'}$), 1.83 (quintet, *J*=7.0 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=174.42 (CO^{GABA}), 173.79 ($CO^{GABA'}$), 171.35 (CO^{Gly1}), 170.26 (CO^{Gly3}), 169.92 (CO^{Gly2}), 154.11 (C_f-2, 5, 8, 10), 146.85 (C_f-52, 60), 145.80 (C_f-32, 39, 41, 48), 145.62 (C_f-3, 4, 25, 26), 145.46 (C_f-51, 53, 56, 59), 145.18 (C_f-21, 30), 145.01 (C_f-14, 19, 23, 28), 144.84 (C_f-49, 50, 54, 55), 144.09 (C_f-33, 38, 42, 47), 142.65 (C_f-31, 40), 142.19 (C_f-35, 36, 57, 58), 141.68 (C_f-13, 20, 22, 29), 141.63 (C_f-34, 37, 43, 46), 141.46 (C_f-16, 17, 44, 45), 139.73 (C_f-15, 18, 24, 27), 135.74 (C_f-6, 7, 11, 12), 69.91 (C_f-1, 9), 67.09 ($CH_2^{pyrr.}$), 53.88 ($CH_2^{4'}$), 42.54 (CH_2^{Gly3}), 41.98 (CH_2^{Gly2}), 40.46 (CH_2^{Gly1}), 38.23 (CH_2^{4}), 33.58 ($CH_2^{2'}$), 32.36 (CH_2^{2}), 24.77 (CH_2^{3}), 24.04 ($CH_2^{3'}$); IR: ν=3426, 2926, 1655, 1544, 1427, 1186, 1135, 1078 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3000), 323 (27000), 305 (28000), 256 nm (90000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{76}H_{28}N_5O_6$: 1106.20341 $[M+H]^+$, found 1106.20491.

Fp-GABA$_3$-Gly-OH (Fp-G''-G'-G-Gly-OH) 10

Starting from *tert*-butyl ester (147 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **10** (138 mg, 99 %) was obtained. ^1H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=7.79 (br.t, *J*=5.5 Hz, 1H, NH^{Gly}), 7.72 (br.t, *J*=5.5 Hz, 1H, $NH^{GABA'}$), 7.70 (br.t, *J*=5.5 Hz, 1H, NH^{GABA}), 4.57 (s, 4H, $CH_2^{pyrr.}$), 3.93 (d, *J*=5.5 Hz, 2H, CH_2^{Gly}), 3.26 (q, *J*=6.0 Hz, 2H, $CH_2^{4'}$), 3.25 (t, *J*=6.0 Hz, 2H, $CH_2^{4''}$), 3.24 (q, *J*=6.5 Hz, 2H, CH_2^{4}), 2.56 (t, *J*=7.5 Hz, 2H, $CH_2^{2''}$), 2.28 (quintet, *J*=6.5 Hz, 4H, CH_2^{2}, $CH_2^{3''}$), 2.22t (t, *J*=7.0 Hz, 2H, $CH_2^{2'}$), 1.82 (quintet, *J*=6.5 Hz, 4H, $CH_2^{3,3'}$); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=173.97 (CO^{GABA}), 173.86 ($CO^{GABA''}$), 173.82 ($CO^{GABA'}$), 171.70 (CO^{Gly}), 154.02 (C_f-2, 5, 8, 10), 147.01 (C_f-52, 60), 145.96 (C_f-32, 39, 41, 48), 145.77 (C_f-3, 4, 25, 26), 145.54 (C_f-51, 53, 56, 59), 145.32 (C_f-21, 30), 145.17 (C_f-14, 19, 23, 28), 144.99 (C_f-49, 50, 54, 55), 144.22 (C_f-33, 38, 42, 47), 142.80 (C_f-31, 40), 142.35 (C_f-35, 36, 57, 58), 141.80 (C_f-13, 20, 22, 29), 141.77 (C_f-34, 37, 43, 46), 141.61 (C_f-16, 17, 44, 45), 139.87 (C_f-15, 18, 24, 27), 135.88 (C_f-6, 7, 11, 12), 69.92 (C_f-1, 9), 67.06 ($CH_2^{pyrr.}$), 53.99 ($CH_2^{4''}$), 40.84 (CH_2^{Gly}), 38.70 ($CH_2^{4'}$), 38.54 (CH_2^{4}), 33.75 ($CH_2^{2''}$), 33.18 ($CH_2^{2'}$), 32.97 (CH_2^{2}), 25.14 ($CH_2^{3'}$), 24.86 (CH_2^{3}), 23.97 ($CH_2^{3''}$); IR: ν=3427, 2928, 1646, 1544, 1430, 1187, 1136, 1077 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3500), 323 (33000), 306 (35000), 258 nm (99000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{76}H_{29}N_4O_5$: 1077.21325 $[M+H]^+$, found 1077.21457.

Fp-GABA$_3$-Gly$_2$-OH (Fp-G''-G'-G-Gly^2-Gly^1-OH) 11

Starting from *tert*-butyl ester (155 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **11** (146 mg, 99%) was obtained. ^1H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=7.92 (br.t, *J*=5.5 Hz, 1H, NH^{Gly2}), 7.86 (br.t, *J*=5.5 Hz, 1H, NH^{Gly1}), 7.74 (br.t, 1H, *J*=6.0 Hz, $NH^{GABA'}$), 7.69 (br.t, *J*=6.0 Hz, 1H, NH^{GABA}), 4.64 (s, 4H, $CH_2^{pyrr.}$), 3.95 (d, *J*=5.5 Hz, 2H, CH_2^{Gly1}), 3.90 (d, *J*=6.0 Hz, 2H, CH_2^{Gly2}), 3.31 (t, *J*=7.5 Hz, 2H, $CH_2^{4''}$), 3.25 (q, *J*=7.0 Hz, 2H, $CH_2^{4'}$), 3.23 (q, *J*=6.0 Hz, 2H, CH_2^{4}), 2.56 (t, *J*=7.0 Hz, 2H, $CH_2^{2''}$), 2.29 (quintet, *J*=7.0 Hz, 4H, CH_2^{2}, $CH_2^{3''}$), 2.22 (t, *J*=7.5 Hz, 2H, $CH_2^{2'}$), 1.82 and 1.81 (2 quintets, 4H, $CH_2^{3,3'}$); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=173.99 (CO^{GABA}), 173.80 ($CO^{GABA''}$), 173.78 ($CO^{GABA'}$), 171.48 (CO^{Gly1}), 170.12 (CO^{Gly2}), 153.75 (C_f-2, 5, 8, 10), 147.02 (C_f-52, 60), 145.97 (C_f-32, 39, 41, 48), 145.78 (C_f-3, 4, 25, 26), 145.45 (C_f-51, 53, 56, 59), 145.30 (C_f-21, 30), 145.19 (C_f-14, 19, 23, 28), 145.00 (C_f-49, 50, 54, 55), 144.21 (C_f-33, 38, 42, 47), 142.80 (C_f-31, 40), 142.36 (C_f-35, 36, 57, 58), 141.77 (C_f-13, 20, 22, 29), 141.75 (C_f-34, 37, 43, 46), 141.61 (C_f-16, 17, 44, 45), 139.87 (C_f-15, 18, 24, 27), 135.89 (C_f-6, 7, 11, 12), 69.74 (C_f-1, 9), 66.83 ($CH_2^{pyrr.}$), 54.02 ($CH_2^{4''}$), 42.34 (CH_2^{Gly2}), 40.77 (CH_2^{Gly1}), 38.69 ($CH_2^{4'}$), 38.24 (CH_2^{4}), 33.66 ($CH_2^{2''}$), 33.07 ($CH_2^{2'}$), 32.62 (CH_2^{2}), 25.06 ($CH_2^{3'}$), 24.80 (CH_2^{3}), 23.77 ($CH_2^{3''}$); IR: ν=3291, 3089, 2934, 1650, 1547, 1428, 1196, 1136, 1079 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3000), 319 (28000), 306 (29000), 257 nm (91000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{78}H_{32}N_5O_6$: 1134.23471 $[M+H]^+$, found 1134.23570.

Fp-GABA$_3$-Gly$_3$-OH (Fp-G''-G'-G-Gly^3-Gly^2-Gly^1-OH) 12

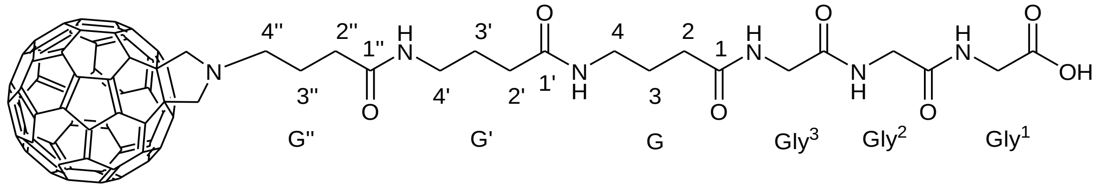
Starting from *tert*-butyl ester (162 mg, 0.13 mmol) in TFA/DCM (1:1, 4 mL) the acid **12** (154 mg, 100%) was obtained. ^1H NMR (500 MHz, $CDCl_3/CS_2/CD_3OH$): δ=8.19 (br.t, *J*=6.0 Hz, 1H, NH^{Gly2}), 8.12 (br.t, *J*=6.0 Hz, 1H, NH^{Gly3}), 7.88 (br.t, *J*=5.5 Hz, 1H, NH^{Gly1}), 7.81 (br.t, 1H, *J*=5.5 Hz, $NH^{GABA'}$), 7.71 (br.t, *J*=5.5 Hz, 1H, NH^{GABA}), 4.63 (s, 4H, $CH_2^{pyrr.}$), 3.93 (d, *J*=5.5 Hz, 2H, CH_2^{Gly1}), 3.92 (d, *J*=5.0 Hz, 2H, CH_2^{Gly2}), 3.86 (d, *J*=5.5 Hz, 2H, CH_2^{Gly3}), 3.30 (t, *J*=7.5 Hz, 2H, $CH_2^{4''}$), 3.25 (q, *J*=6.5 Hz, 2H, $CH_2^{4'}$), 3.22 (q, *J*=6.5 Hz, 2H, CH_2^{4}), 2.57 (t, *J*=7.0 Hz, 2H, $CH_2^{2''}$), 2.29 (t, *J*=7.0 Hz, 2H, CH_2^{2}), 2.28 (qui., 2H, $CH_2^{3''}$), 2.22 (t, *J*=7.5 Hz, 2H, $CH_2^{2'}$), 1.81 (qui., *J*=6.5 Hz, 2H, $CH_2^{3'}$), 1.80 (qui., *J*=6.5 Hz, 2H, CH_2^{3}); ^{13}C NMR (125 MHz, $CDCl_3/CS_2/CD_3OH$): δ=174.50 (CO^{GABA}), 173.82 ($CO^{GABA''}$), 173.80 ($CO^{GABA'}$), 171.42 (CO^{Gly1}), 170.43 (CO^{Gly3}), 170.07 (CO^{Gly2}), 153.74 (C_f-2, 5, 8, 10), 146.97 (C_f-52, 60), 145.92 (C_f-32, 39, 41, 48), 145.73 (C_f-3, 4, 25, 26), 145.41 (C_f-51, 53, 56, 59), 145.25 (C_f-21, 30), 145.14 (C_f-14, 19, 23, 28), 144.95 (C_f-49, 50, 54, 55), 144.16 (C_f-33, 38, 42, 47), 142.76 (C_f-31, 40), 142.31 (C_f-35, 36, 57, 58), 141.72 (C_f-13, 20, 22, 29), 141.71 (C_f-34, 37, 43, 46), 141.56 (C_f-16, 17, 44, 45), 139.82 (C_f-15, 18, 24, 27), 135.85 (C_f-6, 7, 11, 12), 69.72 (C_f-1, 9), 66.82 ($CH_2^{pyrr.}$), 54.00 ($CH_2^{4''}$), 42.74 (CH_2^{Gly3}), 42.15 (CH_2^{Gly2}), 40.60 (CH_2^{Gly1}), 38.63 ($CH_2^{4'}$), 38.04 (CH_2^{4}), 33.63 ($CH_2^{2''}$), 32.99 ($CH_2^{2'}$), 32.24 (CH_2^{2}), 25.05 ($CH_2^{3'}$), 24.70 (CH_2^{3}), 23.76 ($CH_2^{3''}$); IR: ν=3416, 2929, 1651, 1546, 1426, 1188, 1135, 1078 cm^{-1}; UV/Vis ($CHCl_3$): λ_{max} (ε)=430 (3600), 321 (31000), 305 (32000), 257 nm (105000 $mol^{-1}dm^3cm^{-1}$); ESI-TOF-MS: *m/z*: calcd for $C_{80}H_{35}N_6O_7$: 1191.25617 $[M+H]^+$, found 1191.25671.

Table S1 ^{1}H and ^{13}C NMR chemical shifts of the peptide moiety of fullerene acids

$^{13}C/^{1}H$	FpG	FpG_2	FpG_3	FpGGly	$FpGGly_2$	$FpGGly_3$	FpG_2Gly	FpG_2Gly_2	FpG_2Gly_3	FpG_3Gly	FpG_3Gly_2	FpG_3Gly_3
CO(1)	179.81	175.61	175.71	173.72	173.92	174.38	173.98	174.04	174.42	173.97	173.99	174.50
CO(1')		173.62	173.77				173.74	173.86	173.79	173.82	173.78	173.80
CO(1")			173.82							173.86	173.80	173.82
CH_2(2)	30.88 2.73t	31.30 2.37t	31.35 2.34t	33.20 2.64t	33.22 2.65t	33.18 2.66t	33.00 2.31t	32.71 2.32t	32.36 2.31t	32.97 2.28t	32.62 2.29t	32.24 2.289t
CH_2(2')		33.63 2.58t	33.32 2.23t				33.61 2.56t	33.73 2.55t	33.58 2.54t	33.18 2.22t	33.07 2.12t	32.99 2.22t
CH_2(2")			33.76 2.57t							33.75 2.56t	33.66 2.56t	33.63 2.57t
CH_2(3)	20.77 2.31qui	24.31 1.87qui	24.23 1.82qui	23.78 2.28qui	23.63 2.29qui	23.54 2.30qui	24.89 1.87qui	24.95 1.86qui	24.77 1.83qui	24.86 1.82qui	24.80 1.82qui	24.70 1.80qui
CH_2(3')		23.55 2.30qui	25.19 1.83qui				23.54 2.30qui	24.14 2.26qui	24.04 2.25qui	25.14 1.82qui	25.06 1.81qui	25.05 1.81qui
CH_2(3")			23.83 2.30qui							23.97 2.28qui	23.77 2.29qui	23.76 2.285qui
CH_2(4)	55.39 3.26t	38.81 3.32q	38.82 3.26q	53.47 3.23t	53.71 3.28t	53.75 3.30t	38.76 3.31q	38.41 3.29q	38.23 3.26q	38.54 3.24q	38.24 3.23q	38.04 3.22q
CH_2(4')		53.93 3.33t	38.79 3.27q				54.07 3.36t	53.92 3.18t	53.88 3.20t	38.70 3.26q	38.69 3.25q	38.63 3.25q
CH_2(4")			54.04 3.31t							53.99 3.25t	54.02 3.31t	54.00 3.30t
$CH_2(Gly^1)$				40.68 3.98d	40.55 3.94d	40.55 3.942d	40.87 3.94d	40.73 3.95d	40.46 3.92d	40.84 3.93d	40.77 3.95d	40.60 3.93d
$CH_2(Gly^2)$					42.20 3.95d	42.05 3.931d		42.28 3.91d	41.98 3.91d		42.34 3.90d	42.15 3.92d
$CH_2(Gly^3)$						42.62 3.934d			42.54 3.85d			42.74 3.86d
$CO(Gly^1)$				171.31	171.19	171.39	171.69	171.47	171.35	171.70	171.48	171.42
$CO(Gly^2)$					169.71	169.82		170.04	169.92		170.12	170.07
$CO(Gly^3)$						170.10			170.26			170.43
NH(G)		7.58br.t	7.52br.t				7.74br.t	7.68br.t	7.78br.t	7.70br.t	7.69br.t	7.71br.t
NH(G')			7.72br.t							7.72br.t	7.74br.t	7.81br.t
$NH(Gly^1)$				7.76br.t	7.86br.t	7.91br.t	7.76br.t	7.85br.t	7.91br.t	7.79br.s	7.86br.t	7.88br.t
$NH(Gly^2)$					7.93br.t	8.06br.t		7.92br.t	8.16br.t		7.92br.t	8.19br.t
$NH(Gly^3)$						8.09br.t			8.13br.t			8.12br.t

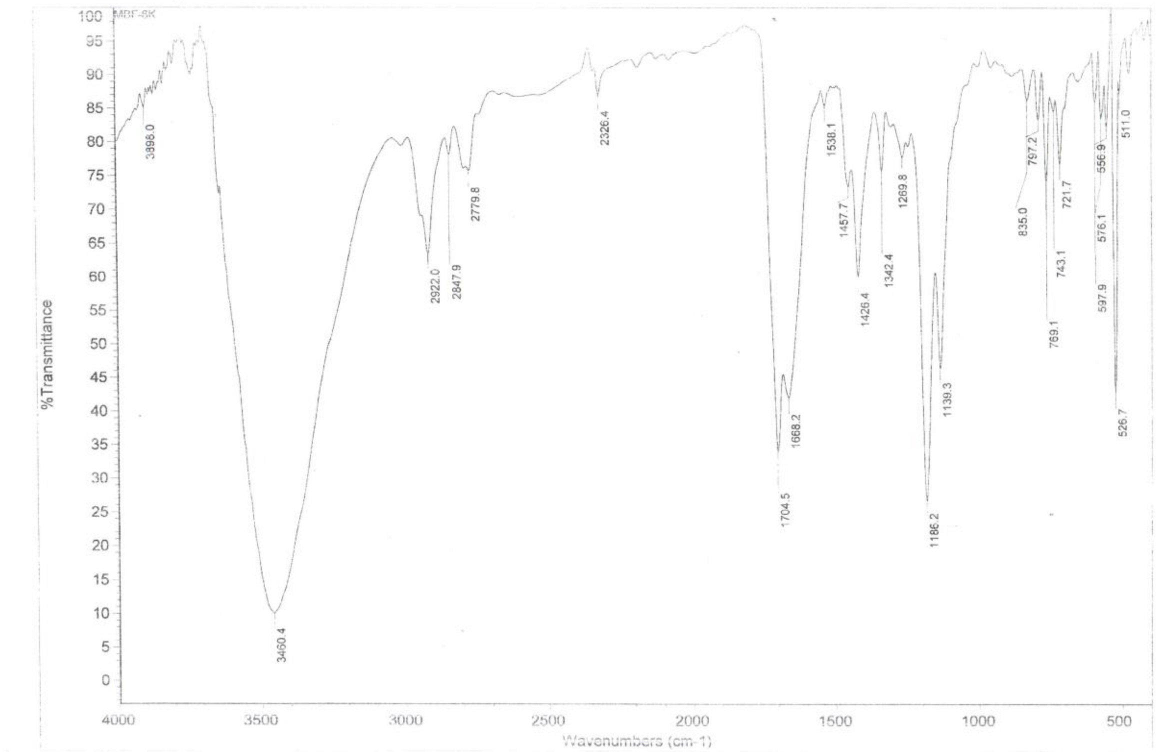
qui = quintet

FpG_3Gly_3

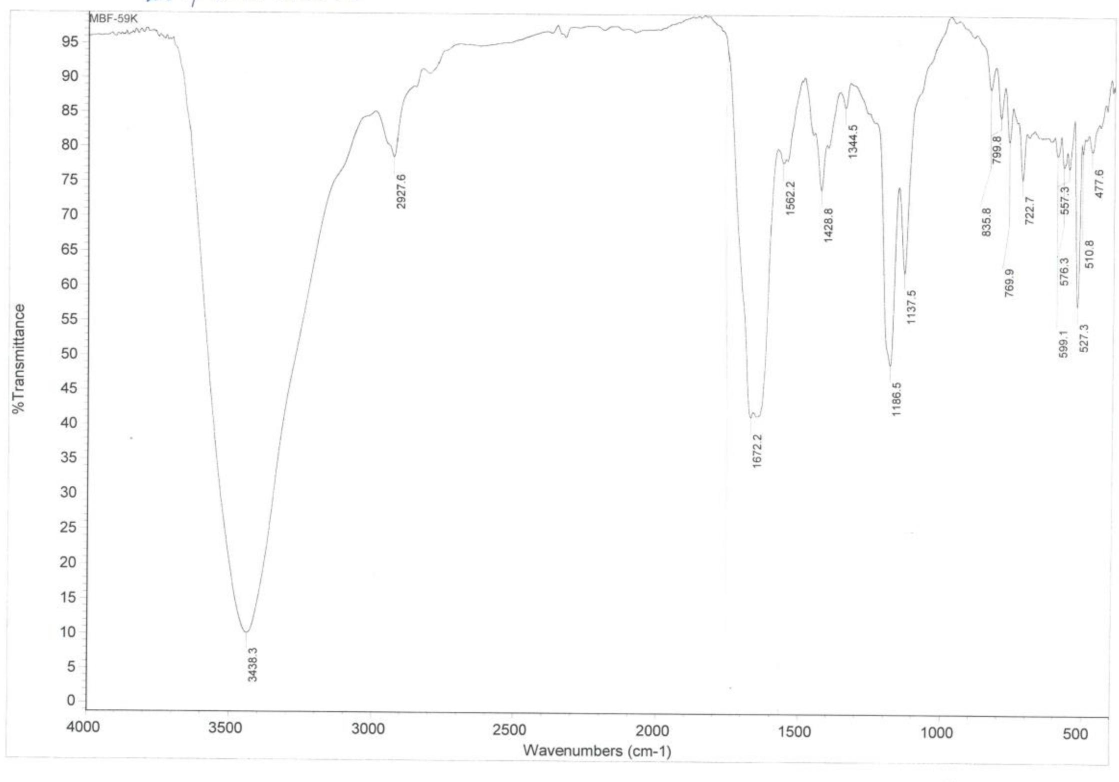


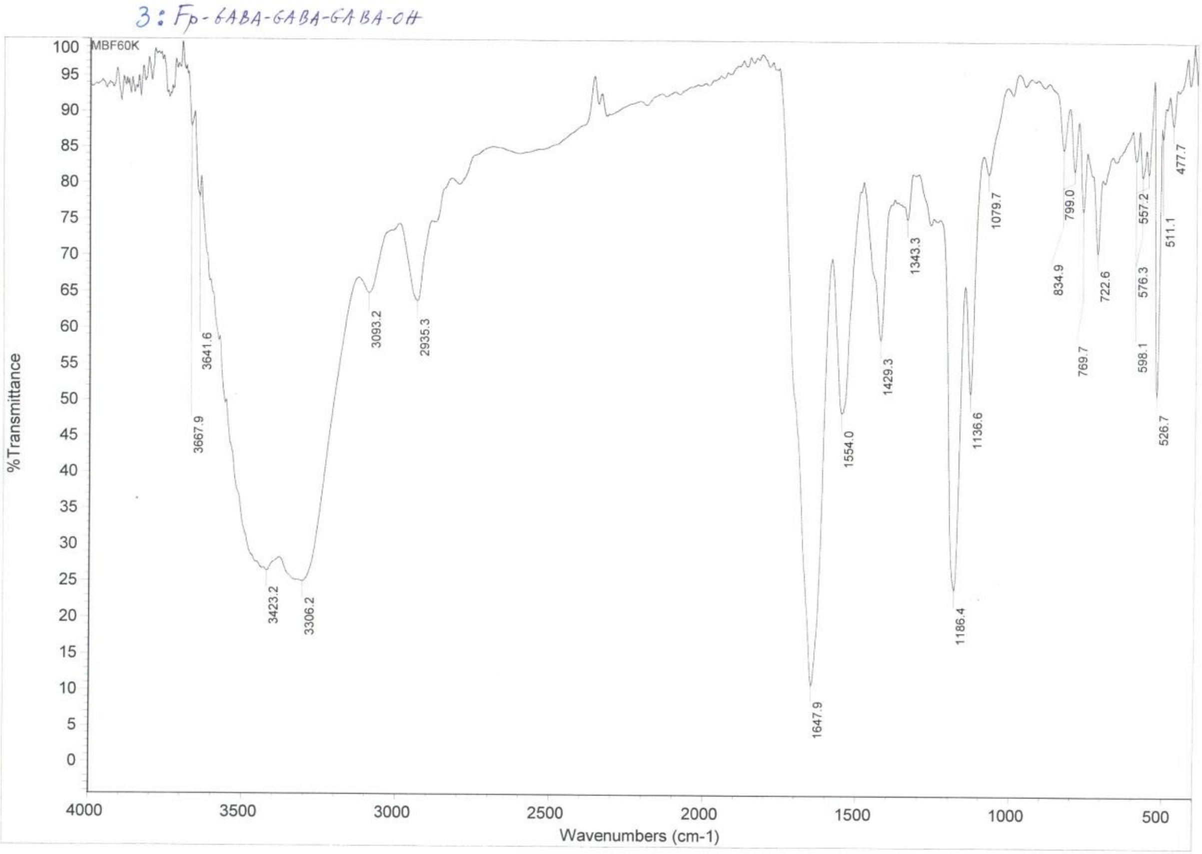
IR spectra of compounds 1-12

1: Fp-GABA-OH

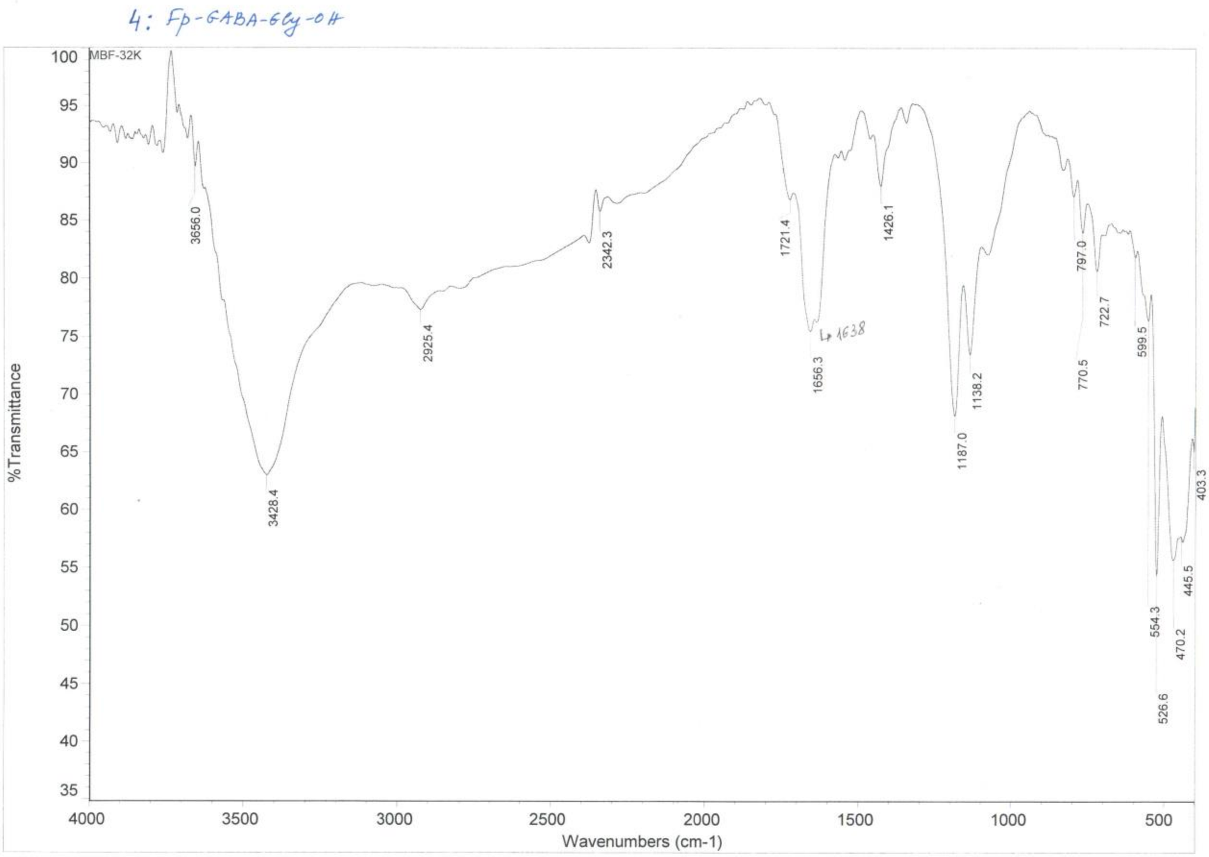


2: Fp-GABA-GABA-OH



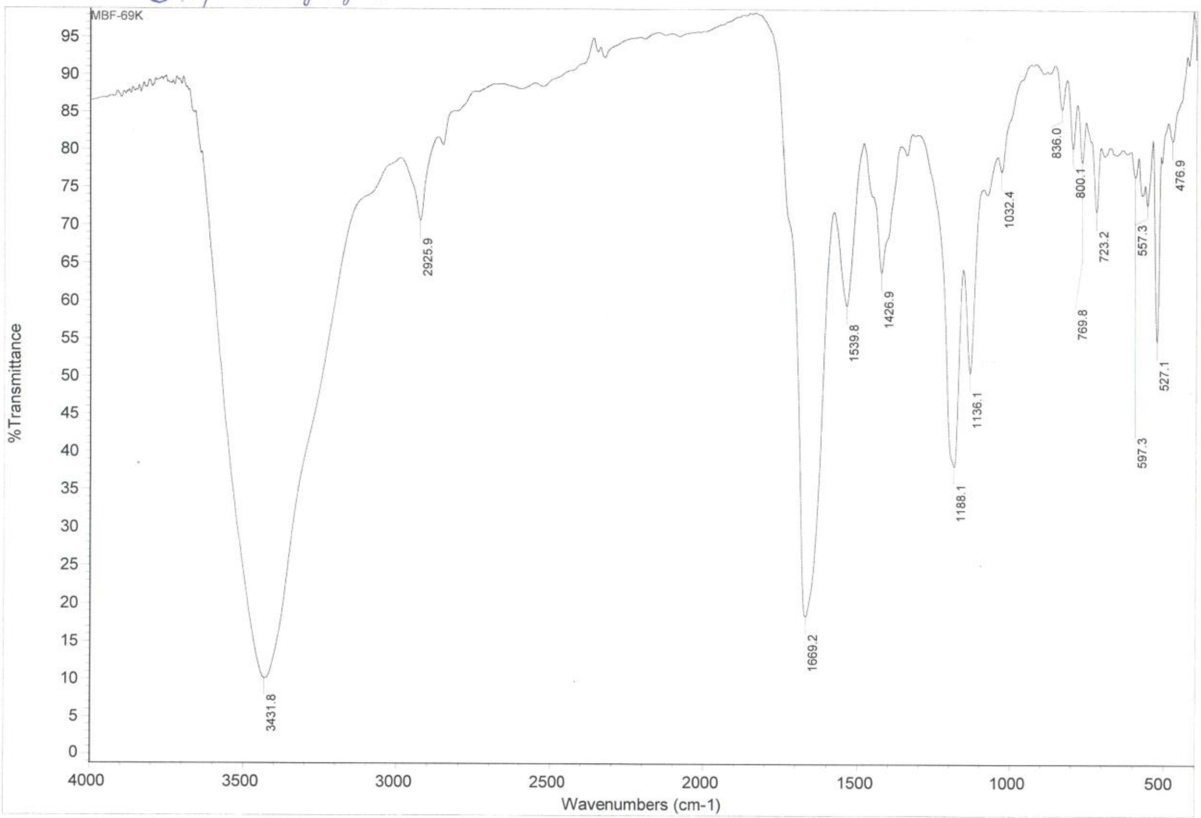


3: Fp-GABA-GABA-GABA-OH
MBF60K
%Transmittance
Wavenumbers (cm-1)
3667.9
3641.6
3423.2
3306.2
3093.2
2935.3
1647.9
1554.0
1429.3
1343.3
1186.4
1136.6
1079.7
834.9
799.0
769.7
722.6
598.1
576.3
557.2
526.7
511.1
477.7

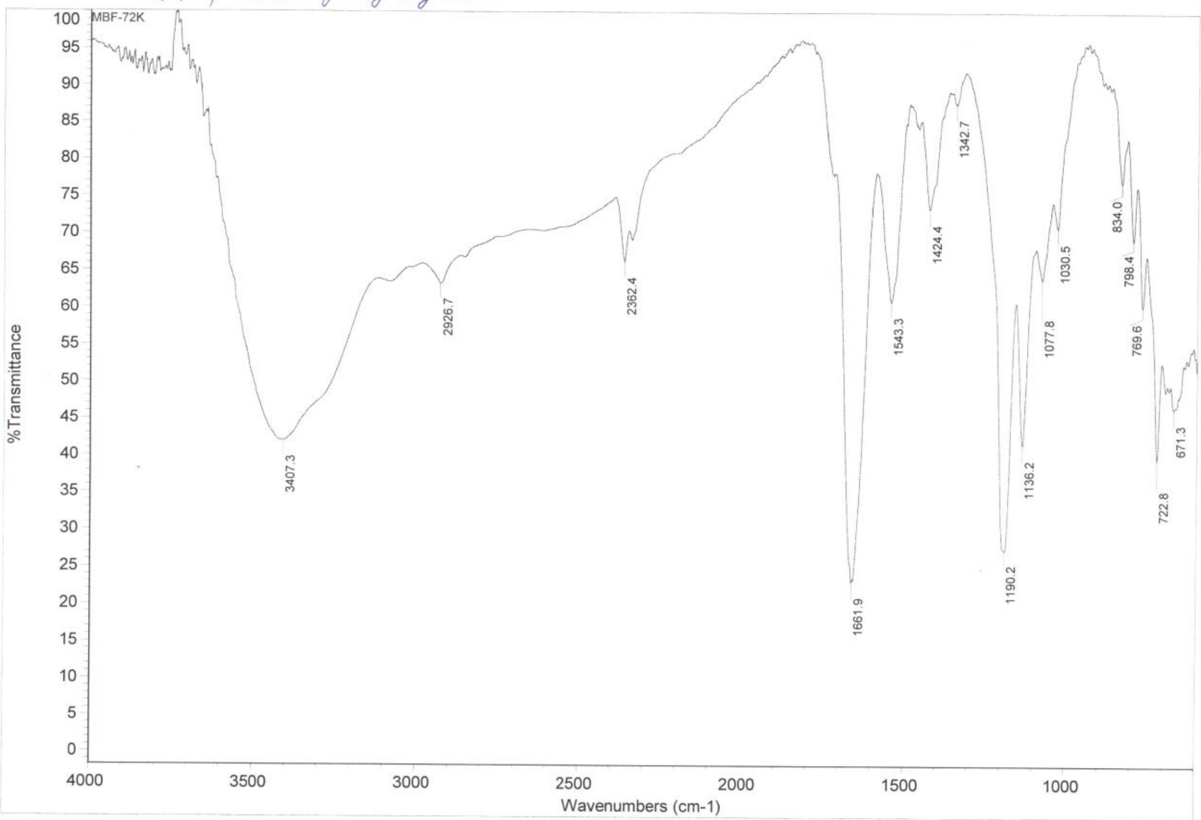


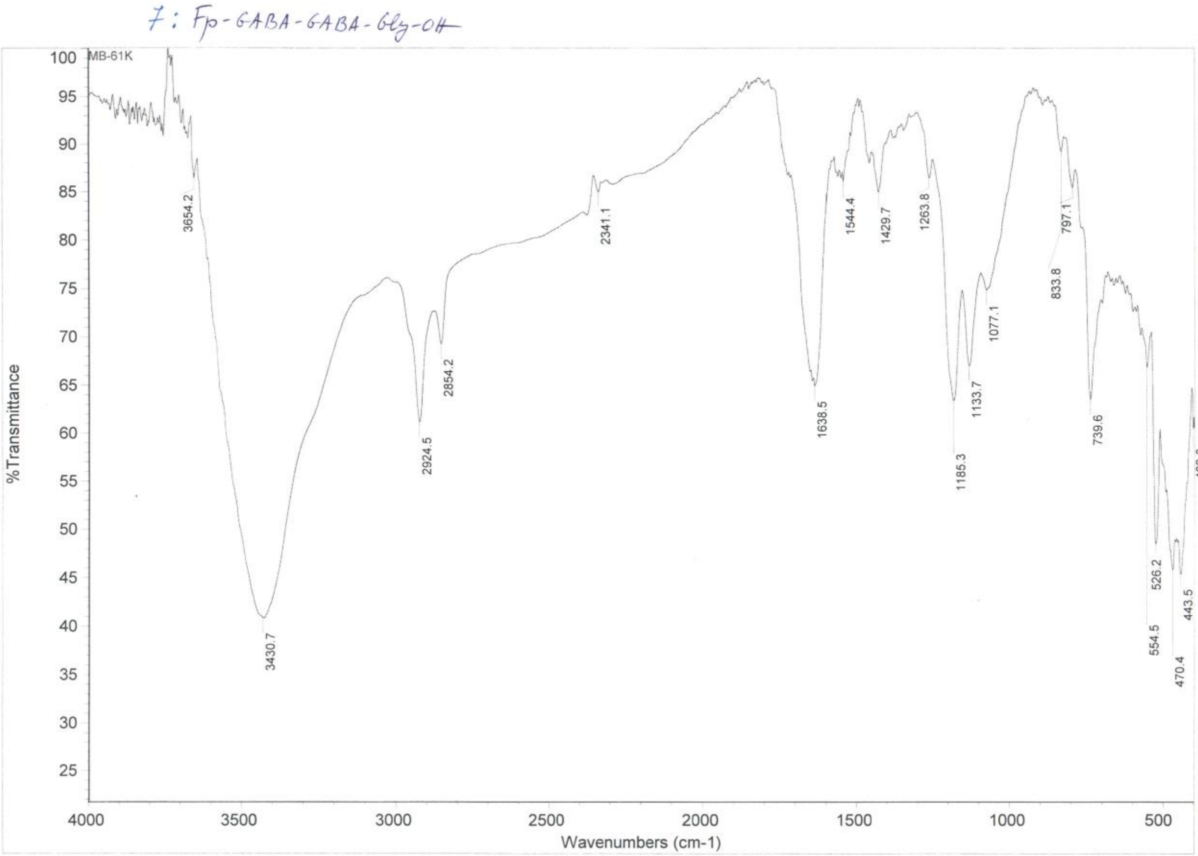
4: Fp-GABA-Gly-OH
MBF-32K
%Transmittance
Wavenumbers (cm-1)
3656.0
3428.4
2925.4
2342.3
1721.4
1656.3
1638
1426.1
1187.0
1138.2
797.0
770.5
722.7
599.5
554.3
526.6
470.2
445.5
403.3

5 : Fp-GABA-Gly-Gly-OH



6 : Fp-GABA-Gly-Gly-Gly-OH




7: Fp-GABA-GABA-Gly-OH
MB-61K
%Transmittance
Wavenumbers (cm-1)
3654.2
3430.7
2924.5
2854.2
2341.1
1638.5
1544.4
1429.7
1263.8
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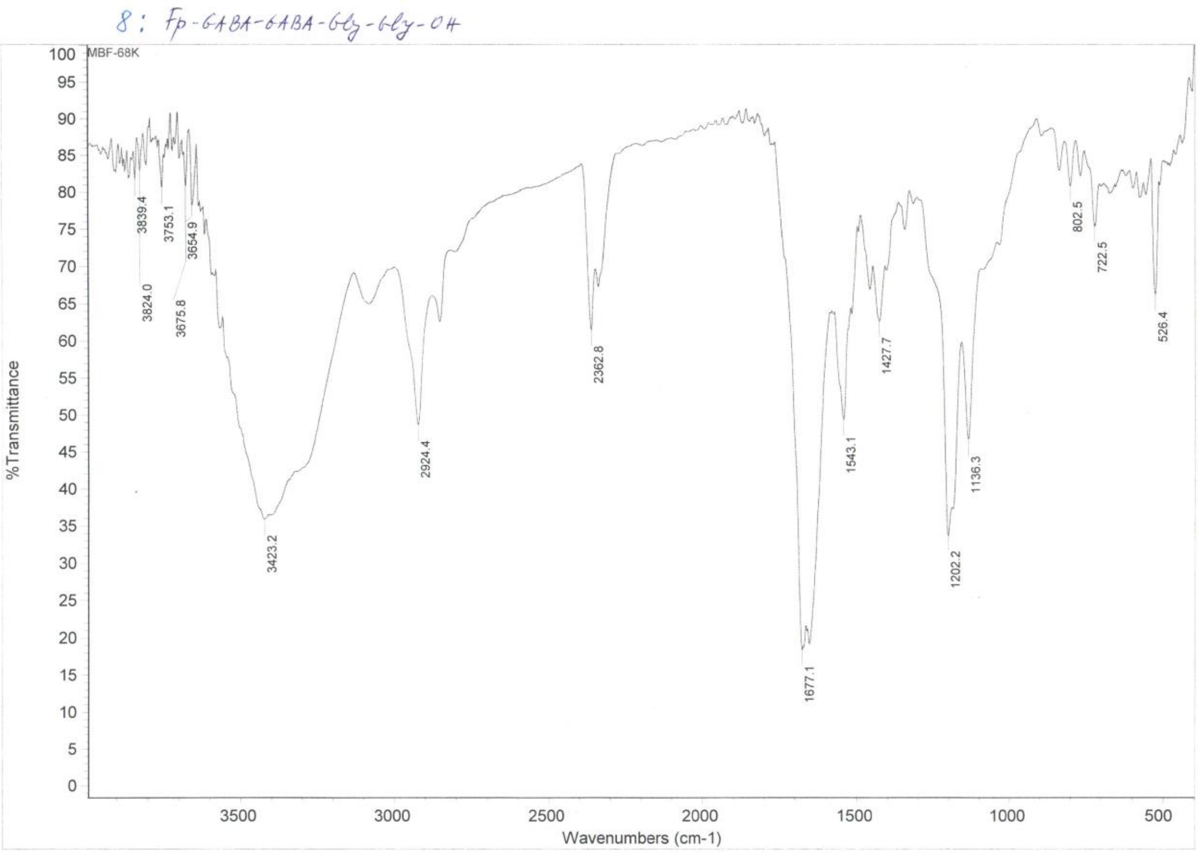
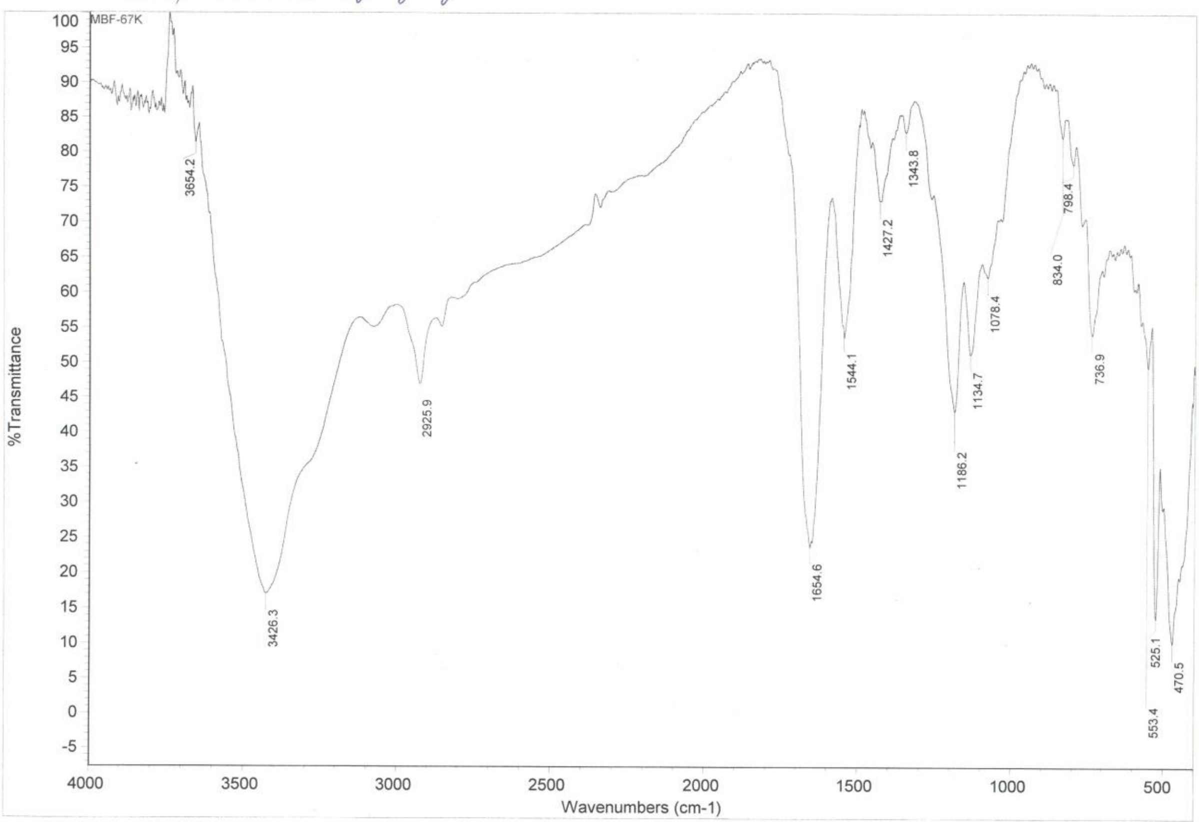
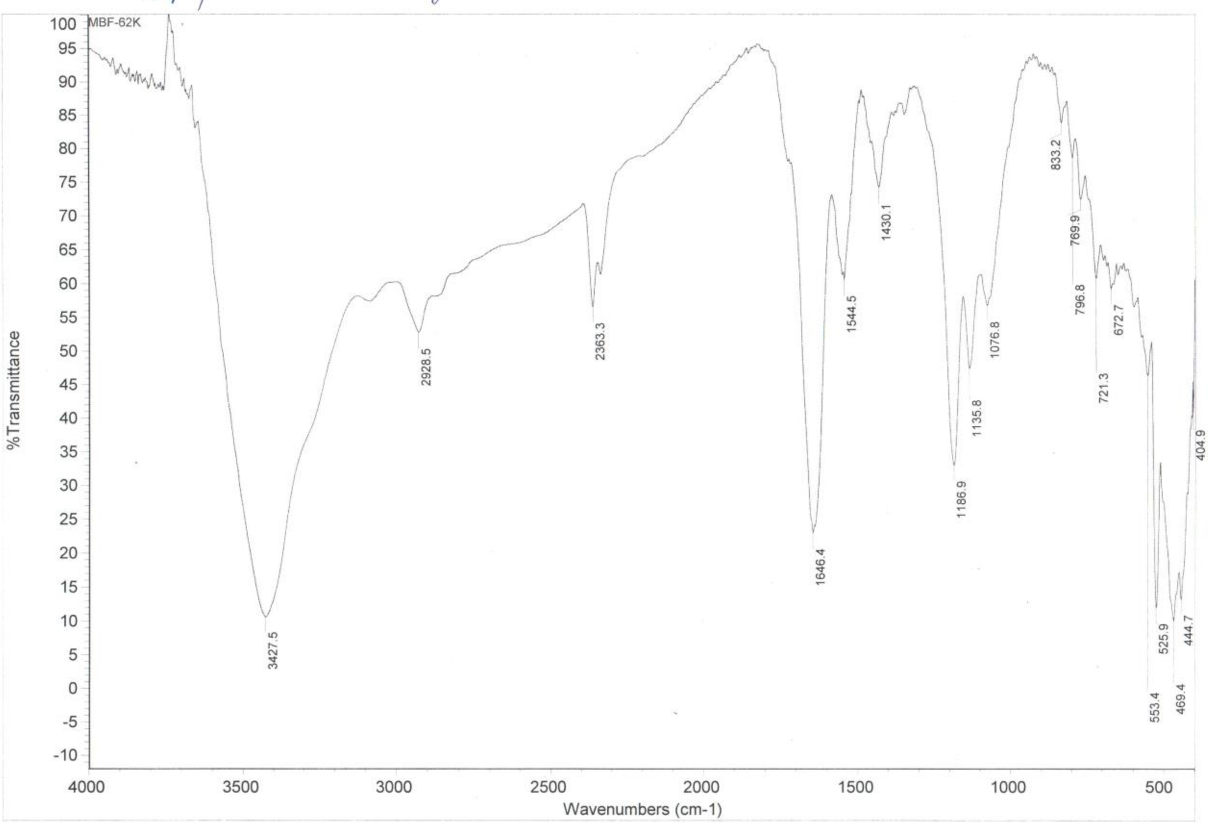
470.4
443.5
402.8

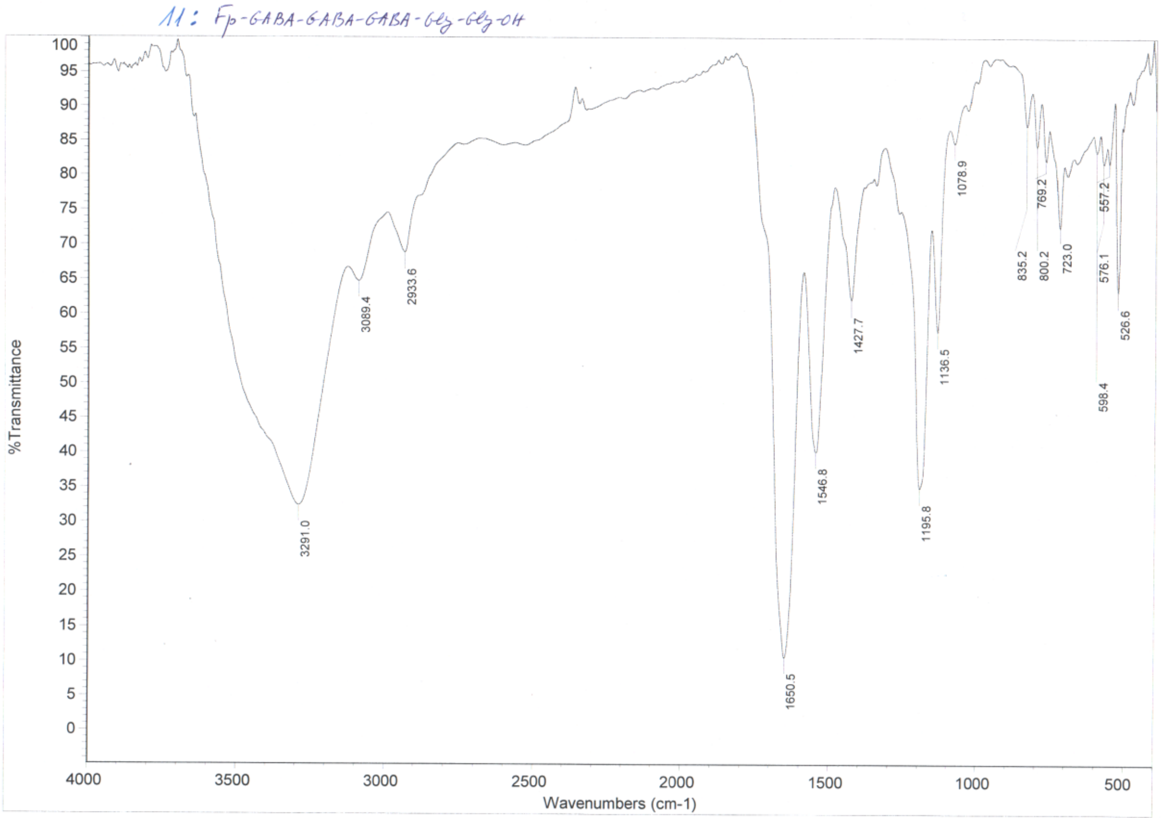

8: Fp-GABA-GABA-Gly-Gly-OH
MBF-68K
%Transmittance
Wavenumbers (cm-1)
3839.4
3824.0
3753.1
3675.8
3654.9
3423.2
2924.4
2362.8
1677.1
1543.1
1427.7
1202.2
1136.3
802.5
722.5
526.4

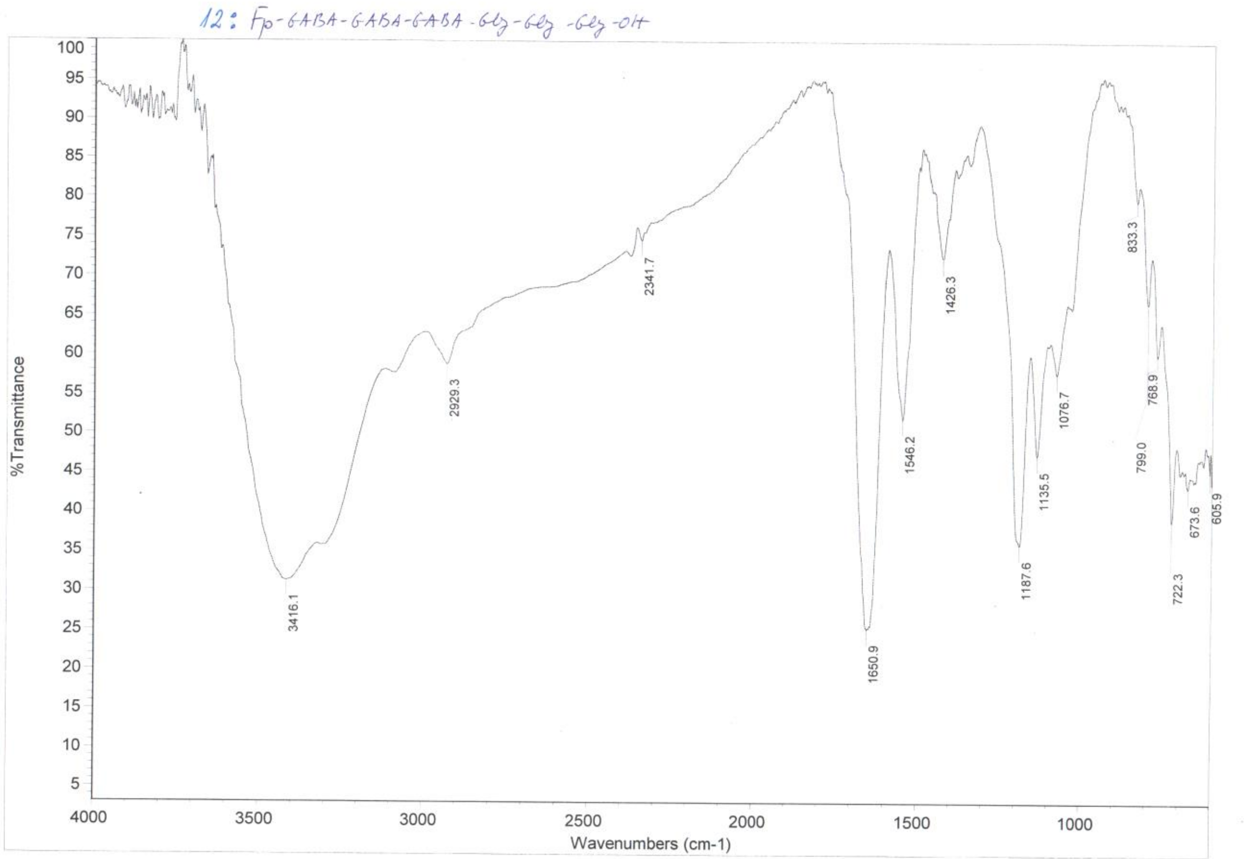
9: Fp-GABA-GABA-Gly-Gly-Gly-OH



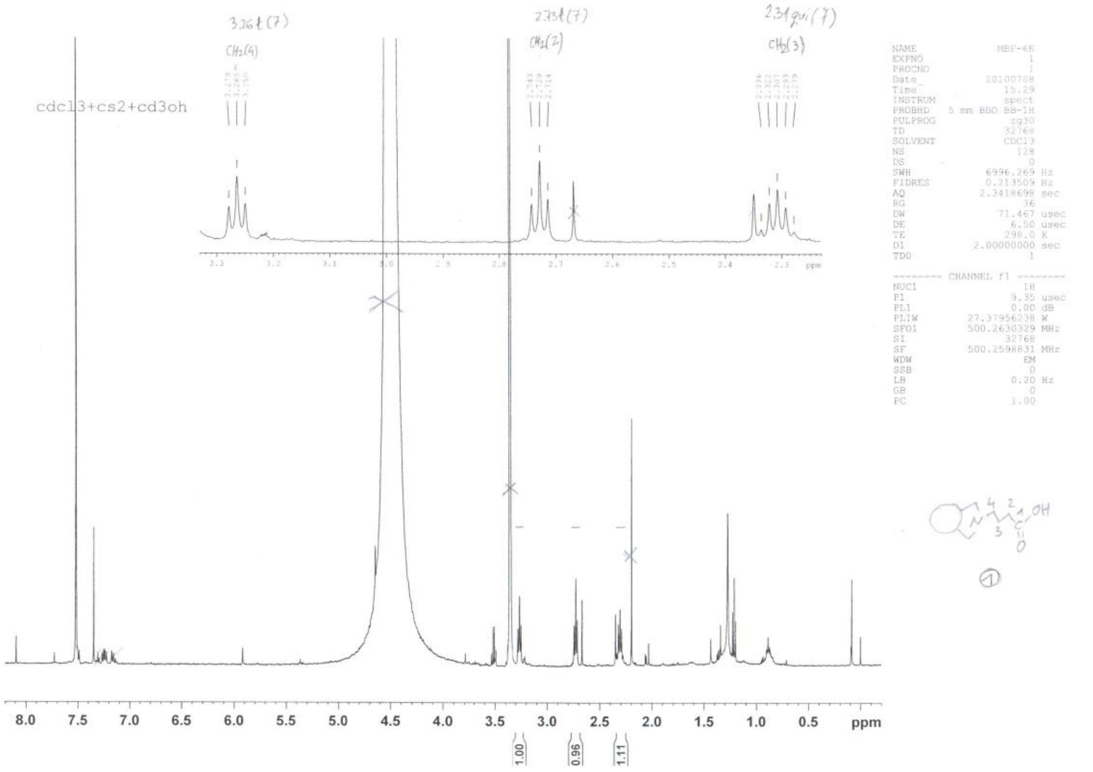
10: Fp-GABA-GABA-GABA-Gly-OH

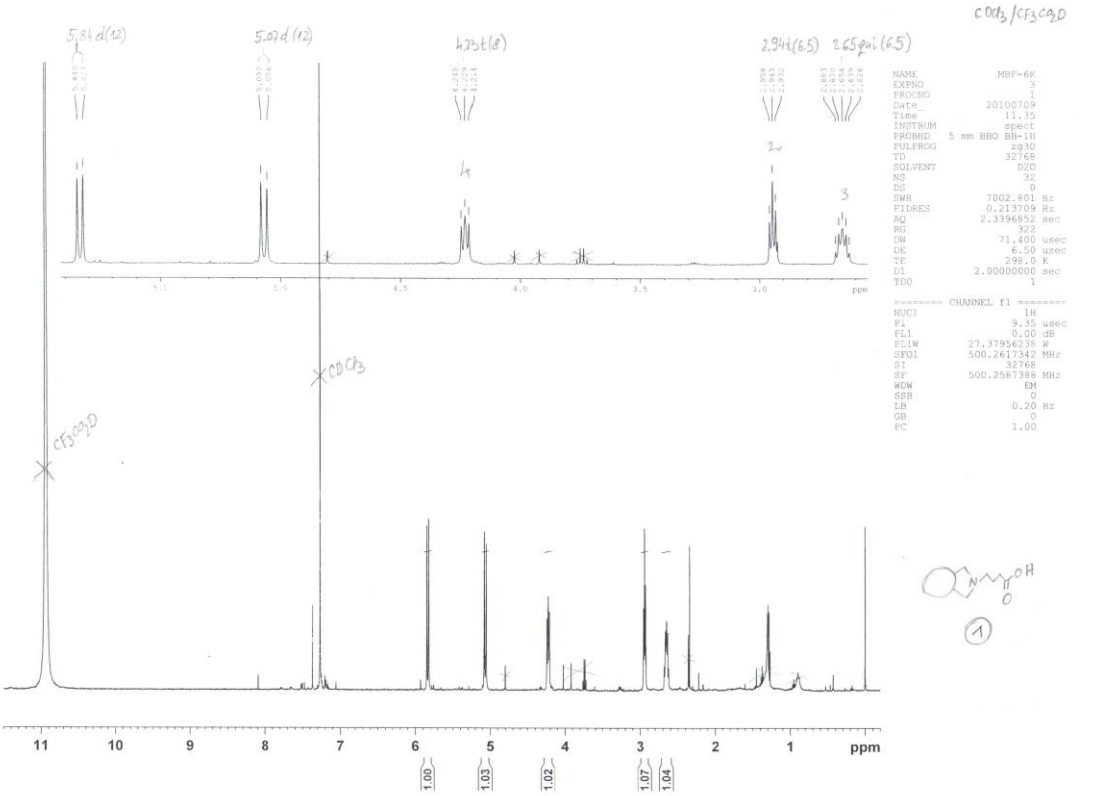


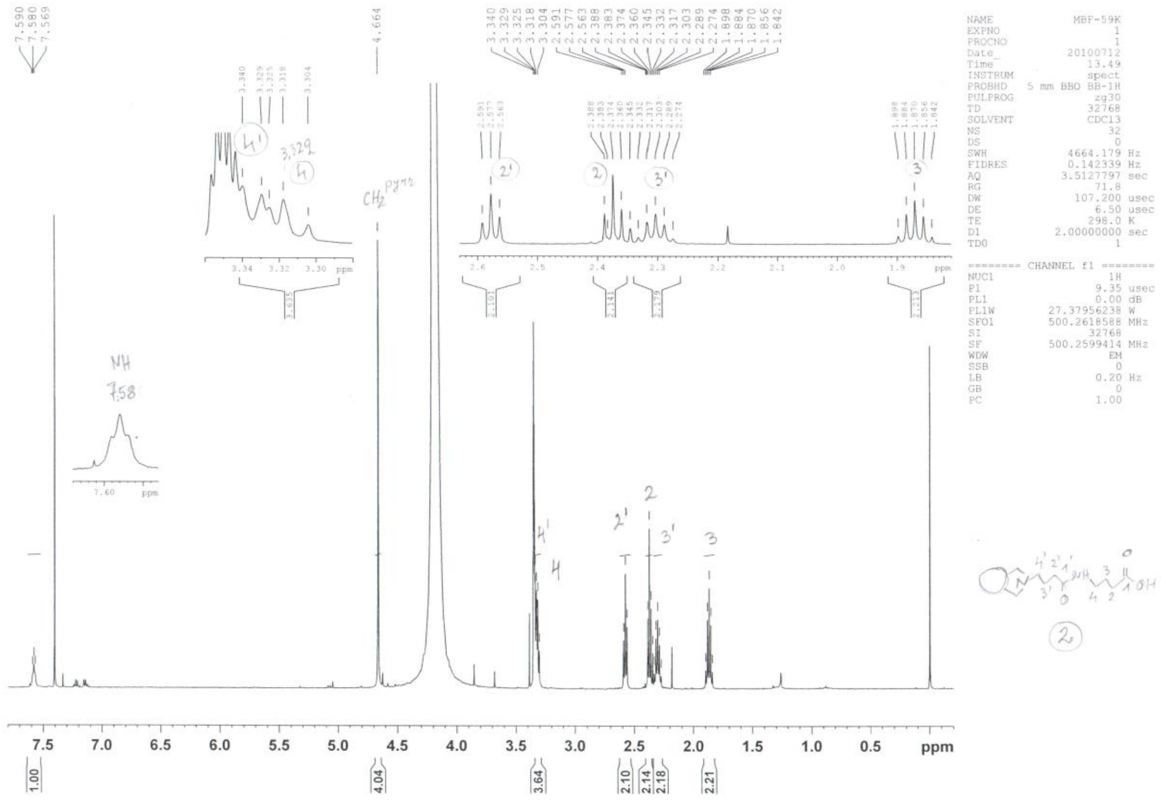

11: Fp-GABA-GABA-GABA-Gly-Gly-OH
%Transmittance
Wavenumbers (cm-1)
3291.0
3089.4
2933.6
1650.5
1546.8
1427.7
1195.8
1136.5
1078.9
835.2
800.2
769.2
723.0
598.4
576.1
557.2
526.6

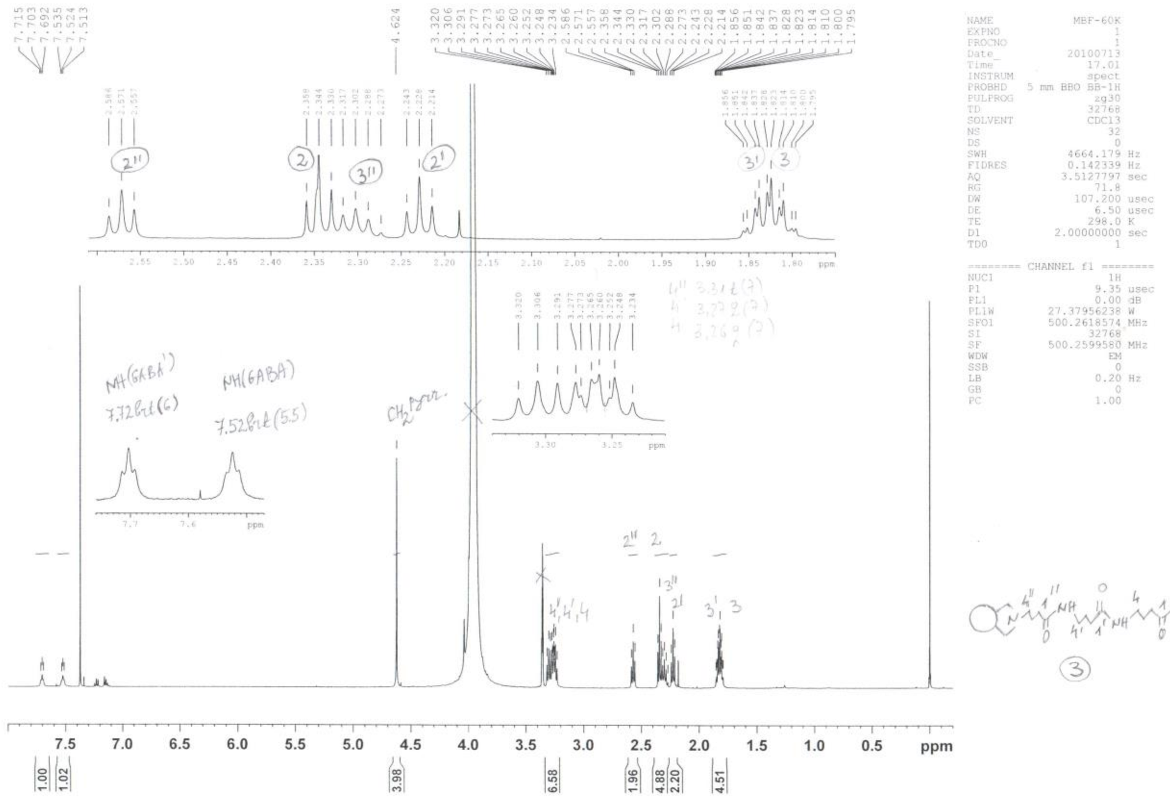

12: Fp-GABA-GABA-GABA-Gly-Gly-Gly-OH
%Transmittance
Wavenumbers (cm-1)
3416.1
2929.3
2341.7
1650.9
1546.2
1426.3
1187.6
1135.5
1076.7
833.3
799.0
768.9
722.3
673.6
605.9

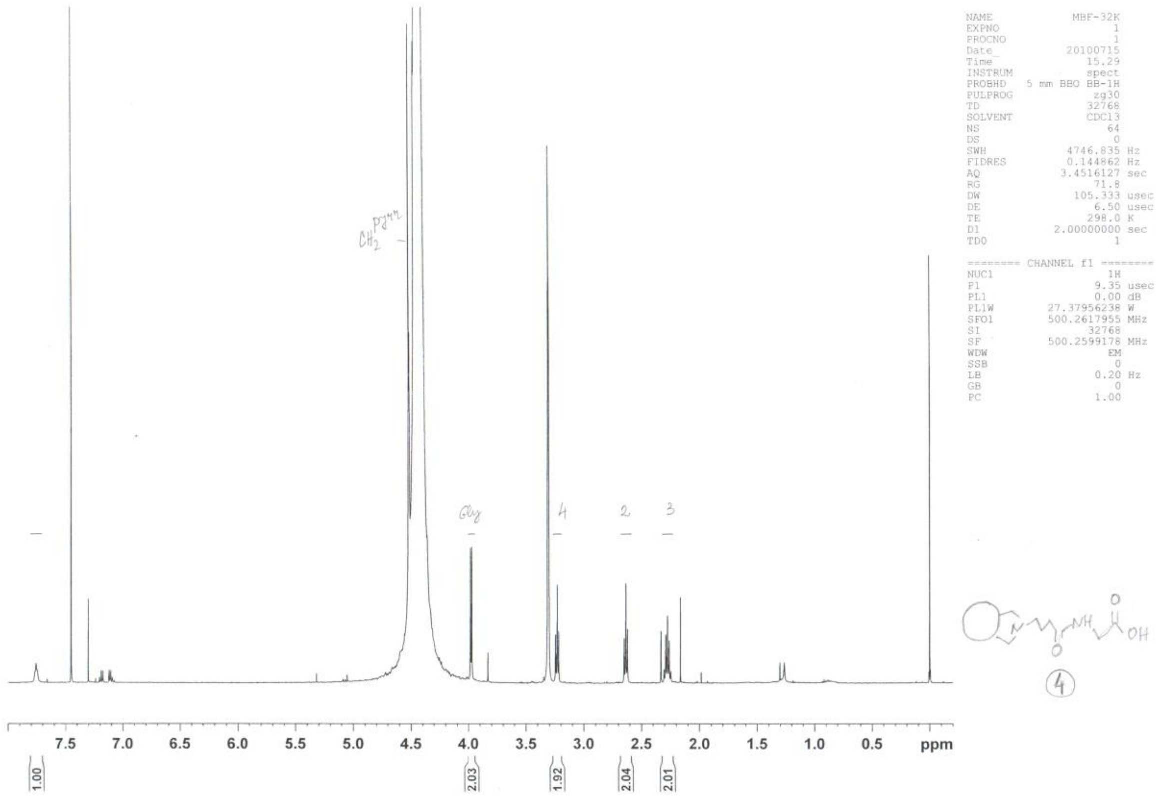
[1]H NMR spectra of compounds 1-12

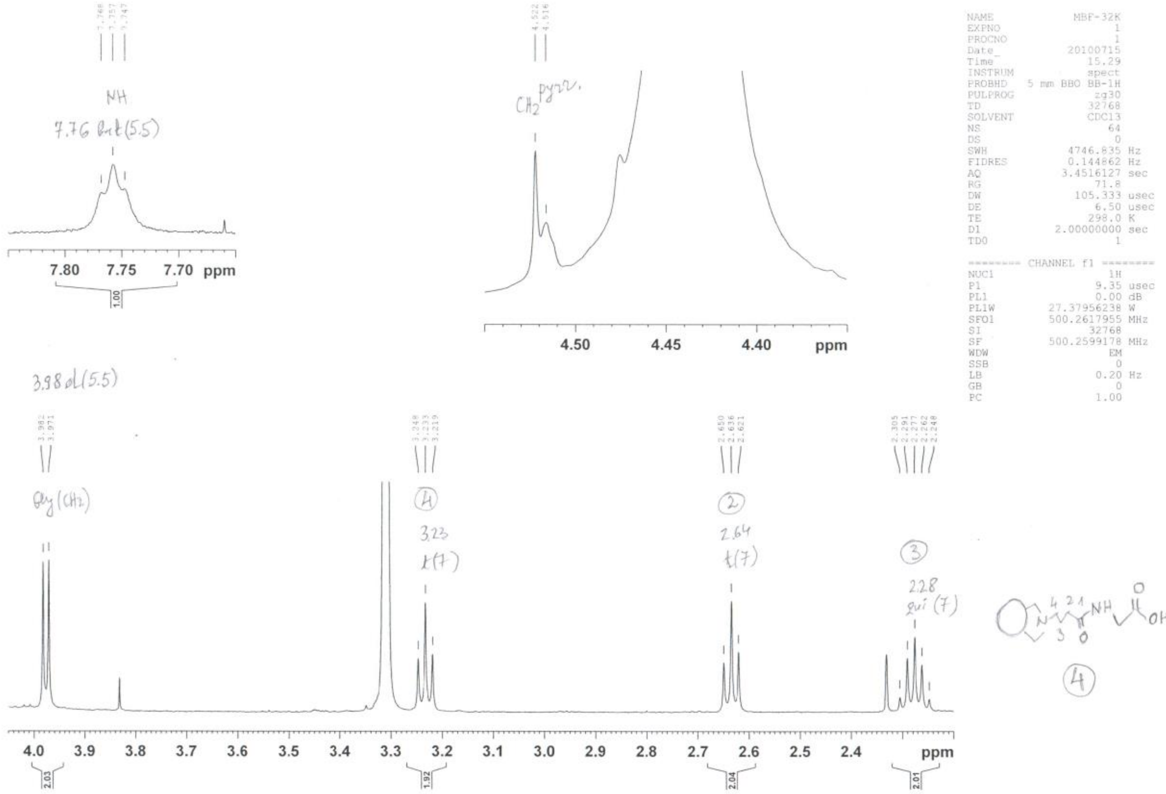


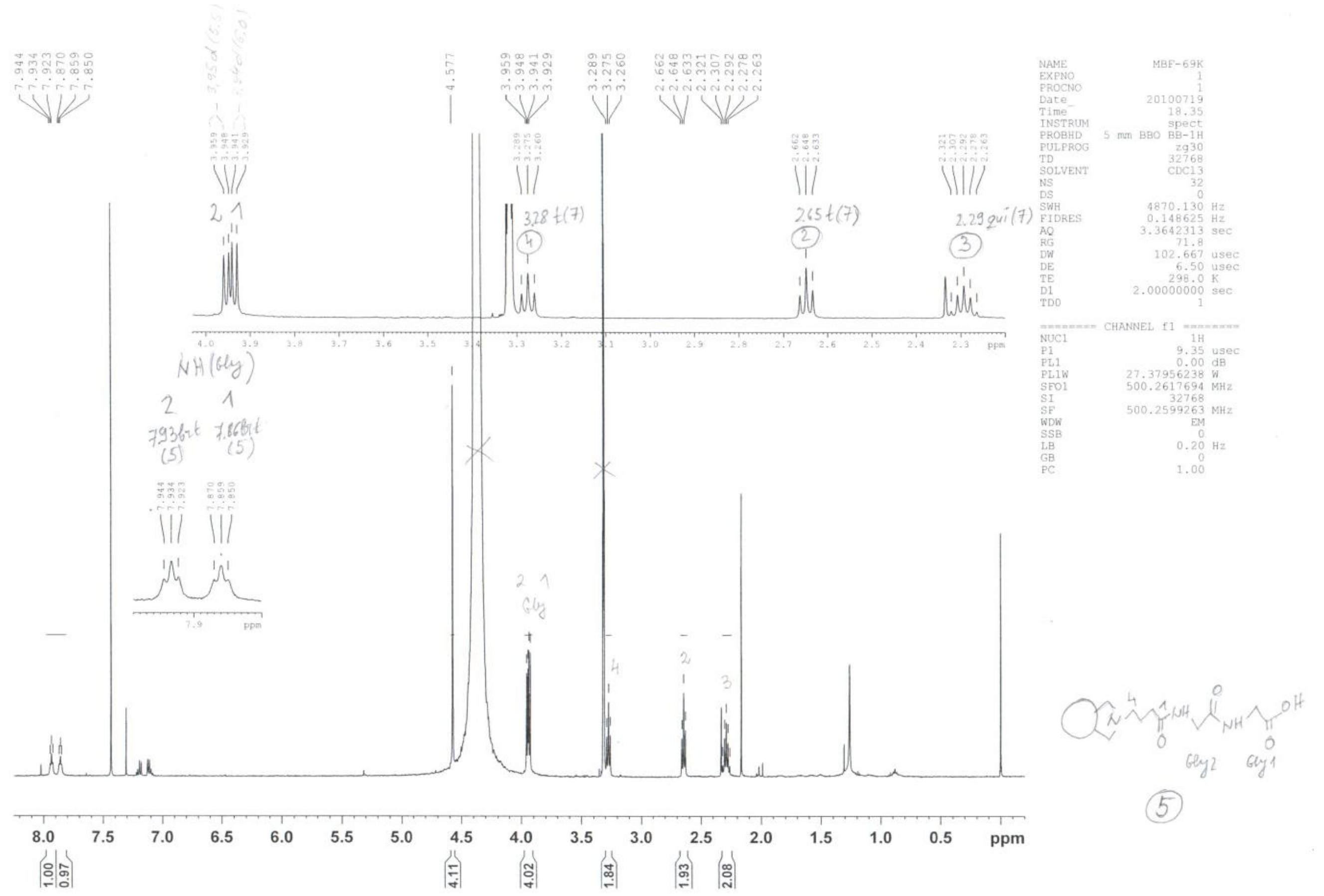


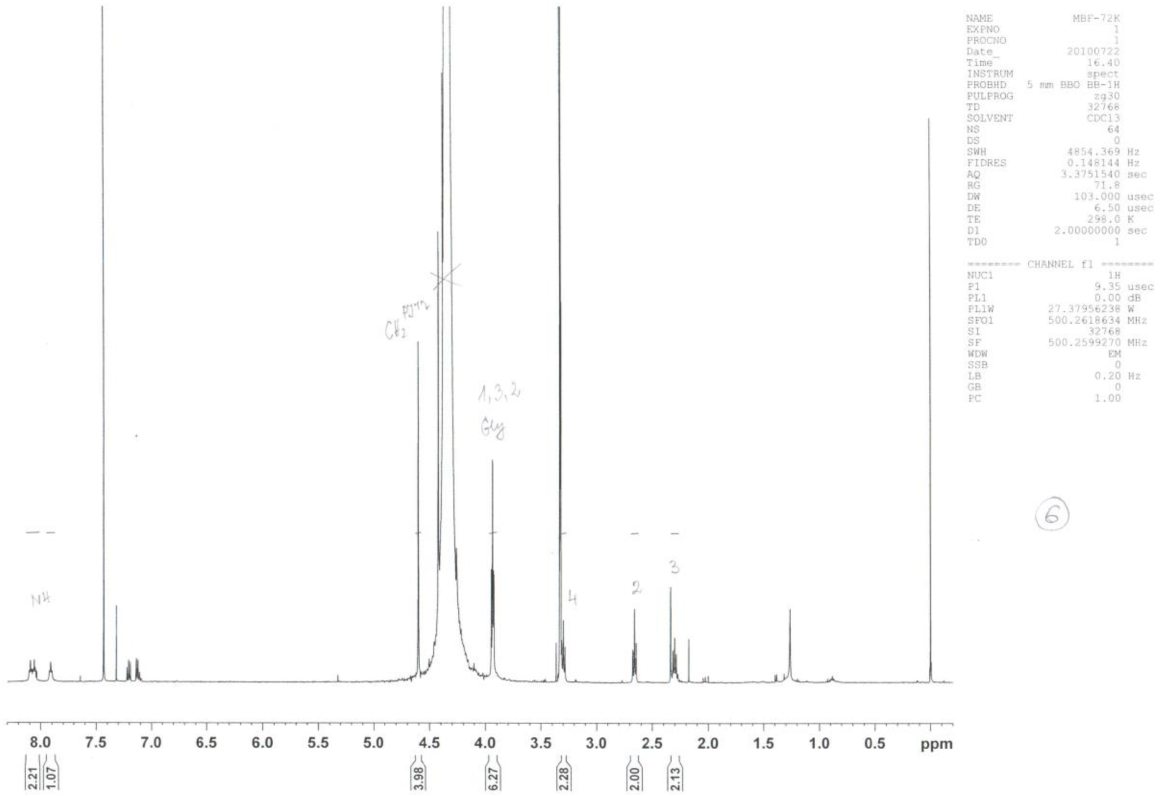


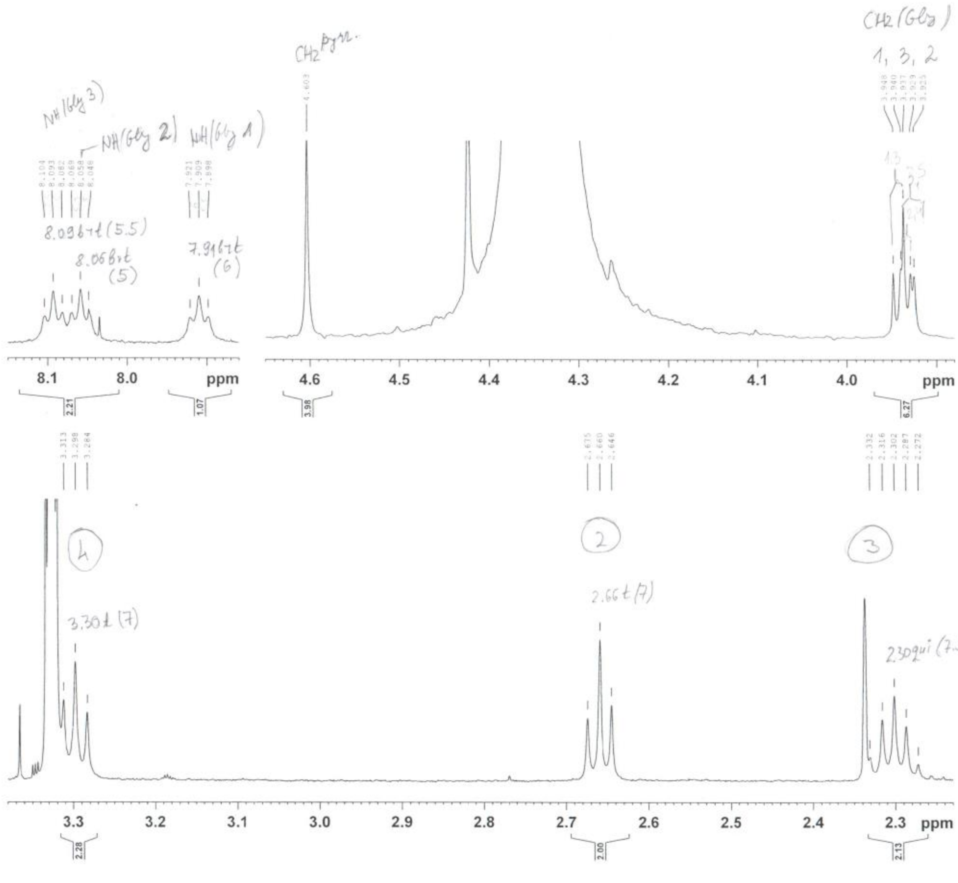


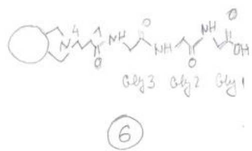

NAME MBF-32K
EXPNO 1
PROCNO 1
Date_ 20100715
Time 15.29
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 64
DS 0
SWH 4746.835 Hz
FIDRES 0.144862 Hz
AQ 3.4516127 sec
RG 71.8
DW 105.333 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2617955 MHz
SI 32768
SF 500.2599178 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
CH2 pyrr
Gly
4
2
3
7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm
1.00
2.03
1.92
2.04
2.01
NH
OH
O
4


7.766 7.757 7.747
NH
7.76 brt (5.5)
7.80 7.75 7.70 ppm
1.00
4.522 4.516
CH2 pyrr.
4.50 4.45 4.40 ppm
NAME MBF-32K
EXPNO 1
PROCNO 1
Date_ 20100715
Time 15.29
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 64
DS 0
SWH 4746.835 Hz
FIDRES 0.144862 Hz
AQ 3.4516127 sec
RG 71.8
DW 105.333 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2617955 MHz
SI 32768
SF 500.2599178 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
3.98 d (5.5)
3.982 3.971
Gly (CH2)
3.248 3.233 3.219
4
3.23 t (7)
2.650 2.636 2.621
2
2.64 t (7)
2.305 2.291 2.277 2.262 2.248
3
2.28 qui (7)
4.0 3.9 3.8 3.7 3.6 3.5 3.4 3.3 3.2 3.1 3.0 2.9 2.8 2.7 2.6 2.5 2.4 ppm
2.03
1.92
2.04
2.01
4 2 1
3
NH
O
OH
4

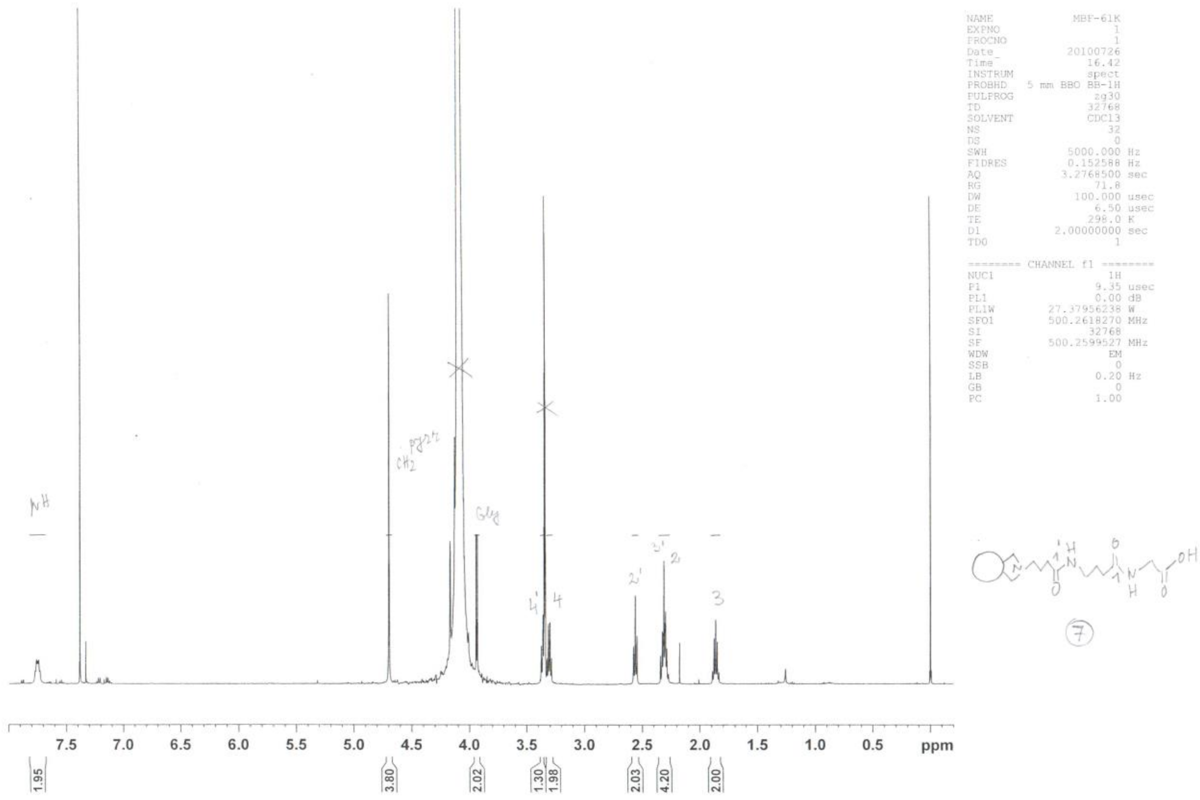

NAME MBF-69K
EXPNO 1
PROCNO 1
Date_ 20100719
Time 18.35
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 0
SWH 4870.130 Hz
FIDRES 0.148625 Hz
AQ 3.3642313 sec
RG 71.8
DW 102.667 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2617694 MHz
SI 32768
SF 500.2599263 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

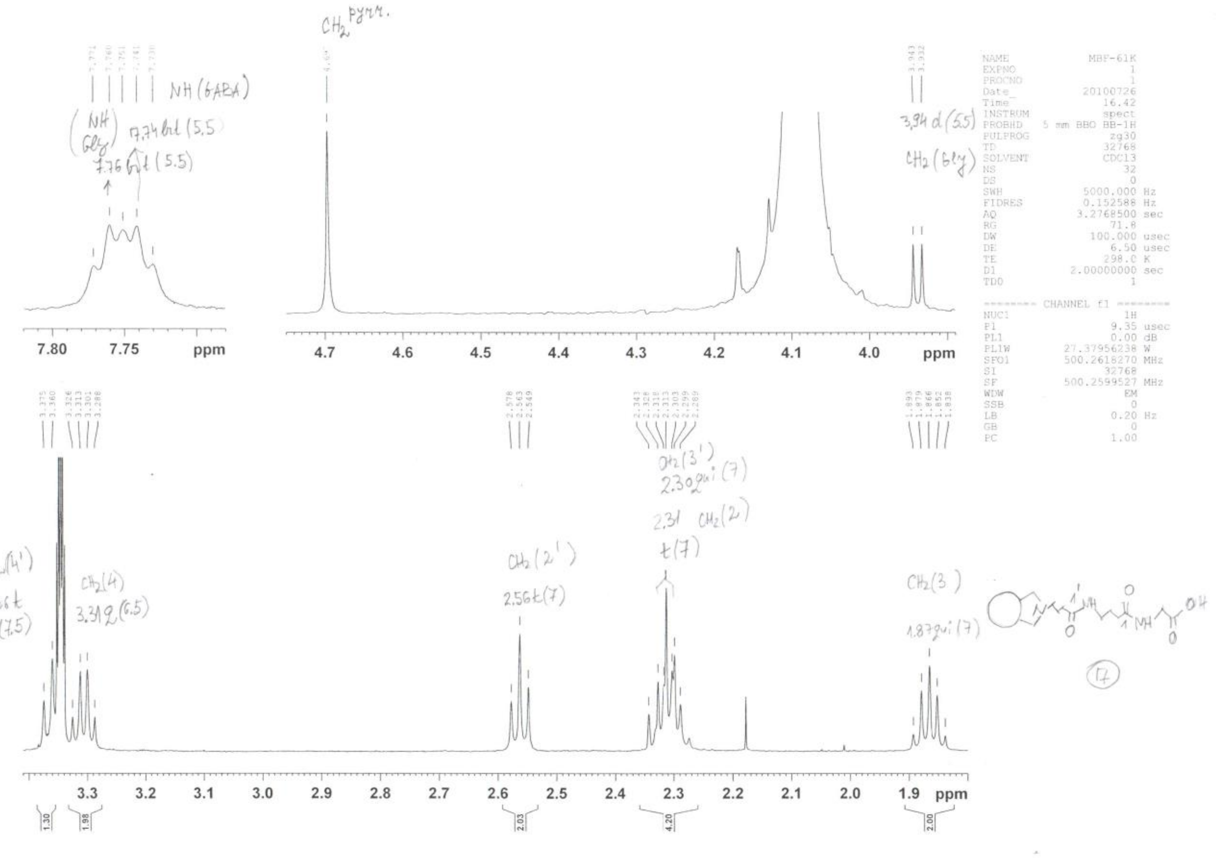

NAME MBF-72K
EXPNO 1
PROCNO 1
Date_ 20100722
Time_ 16.40
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 64
DS 0
SWH 4854.369 Hz
FIDRES 0.148144 Hz
AQ 3.3751540 sec
RG 71.8
DW 103.000 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618634 MHz
SI 32768
SF 500.2599270 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

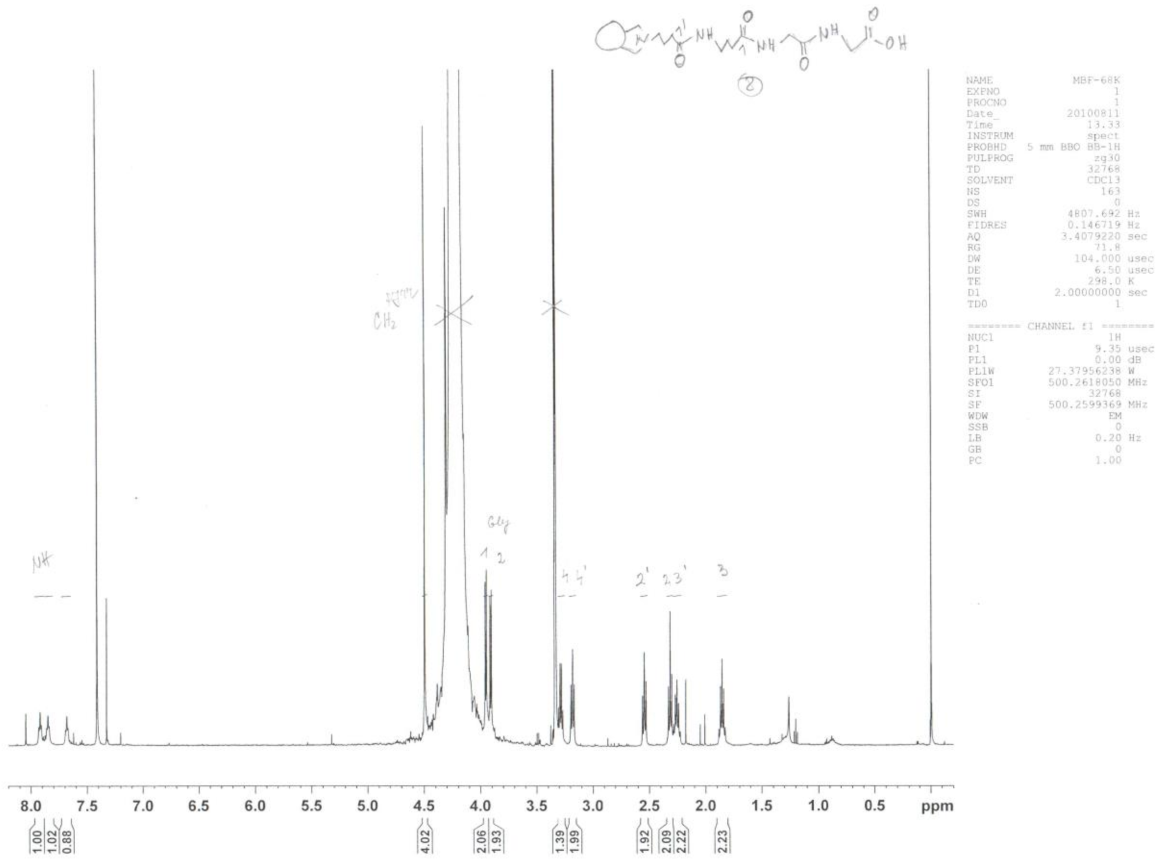

ppm
3.30 t (7)
2.66 t (7)
2.30 qui (7.5)
8.09 brt (5.5)
8.06 brt (5)
7.91 brt (6)

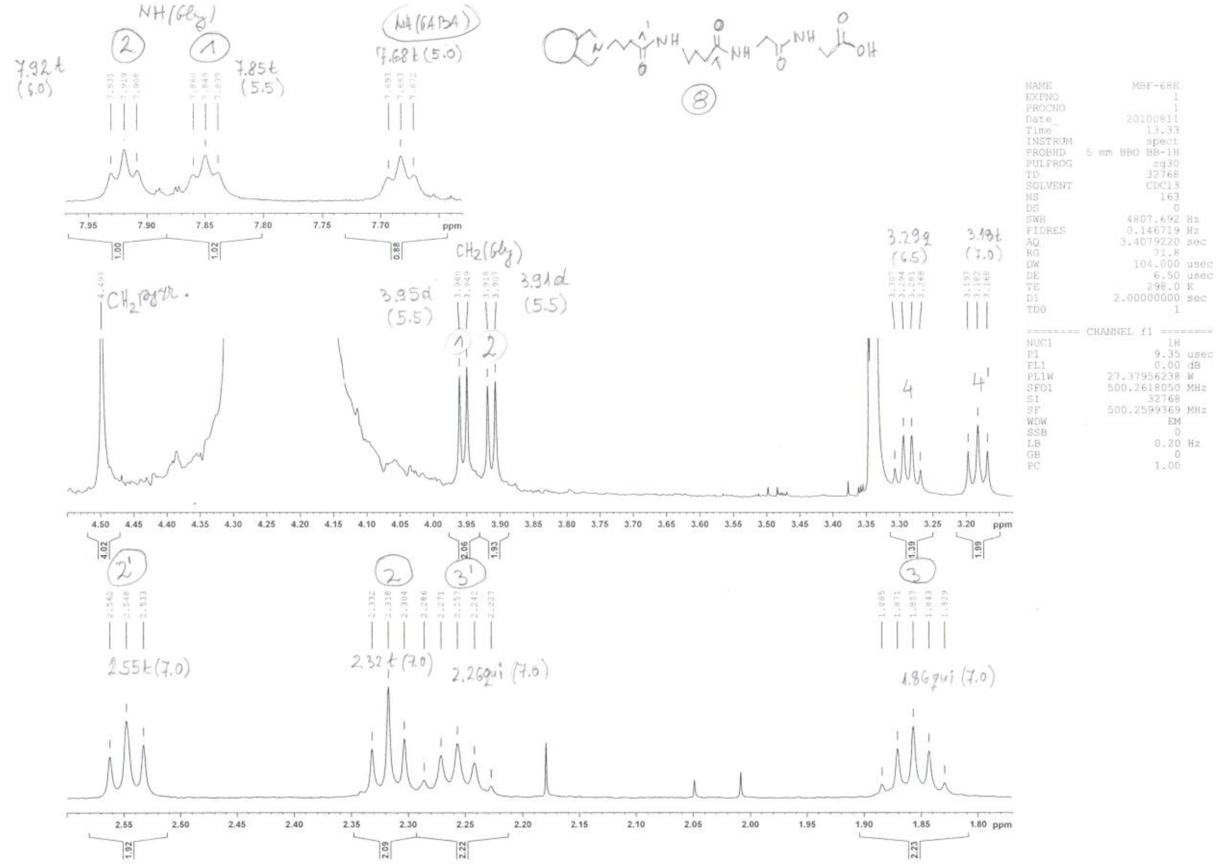


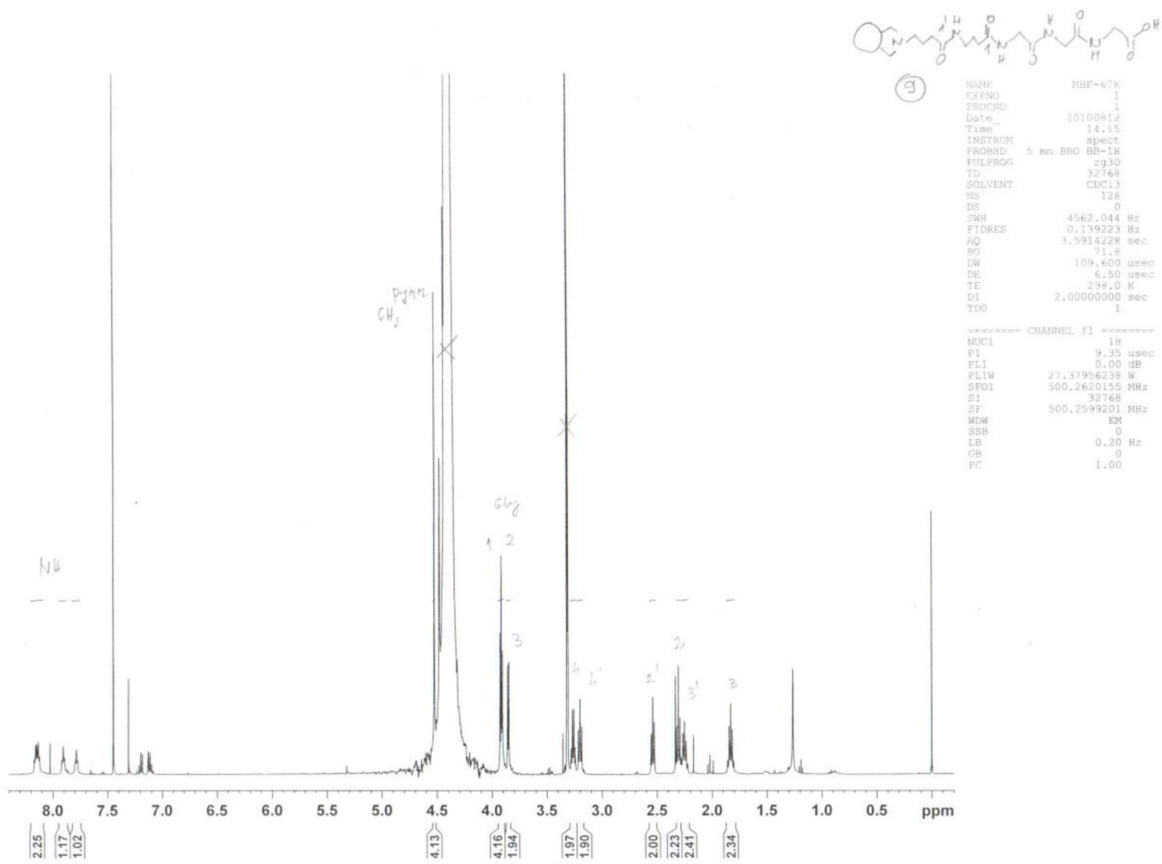
(6)

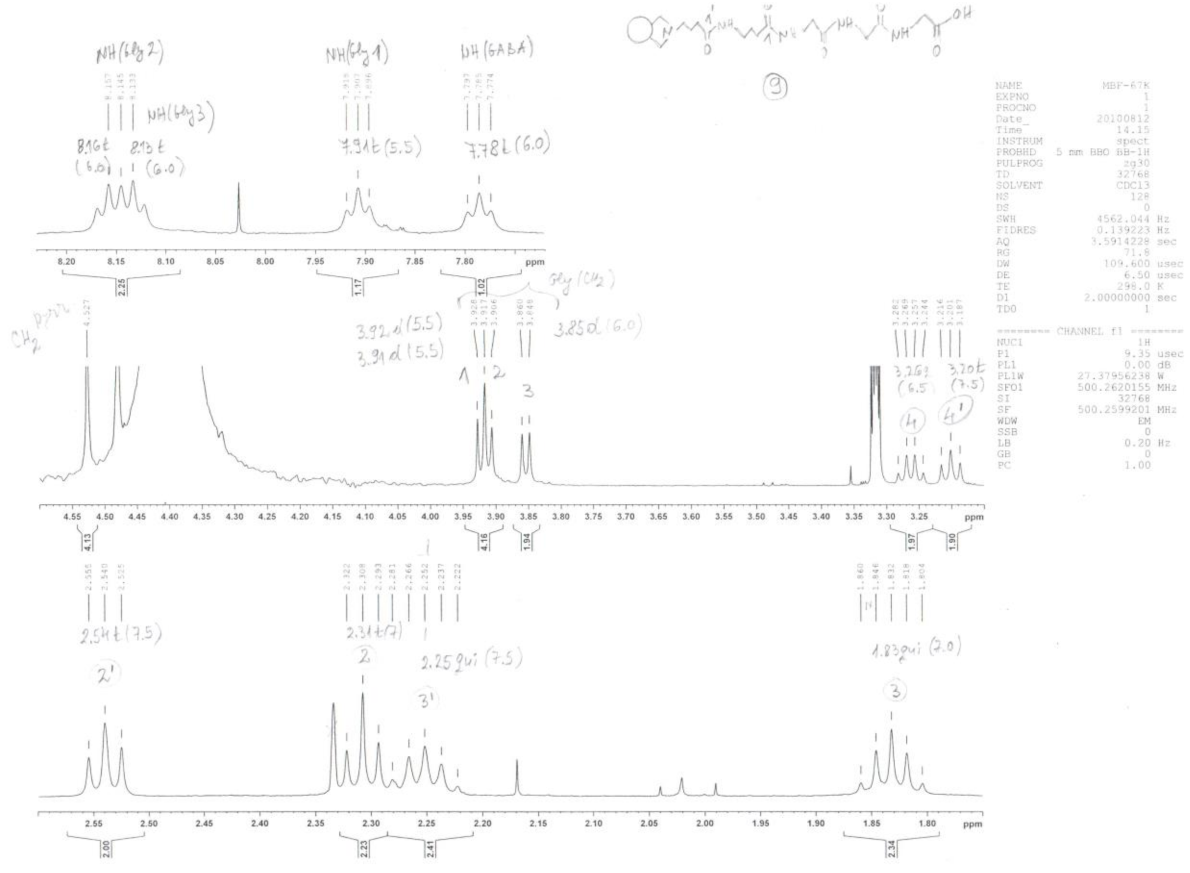

NAME MBF-61K
EXPNO 1
PROCNO 1
Date_ 20100726
Time 16.42
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 0
SWH 5000.000 Hz
FIDRES 0.152588 Hz
AQ 3.2768500 sec
RG 71.8
DW 100.000 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618270 MHz
SI 32768
SF 500.2599527 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

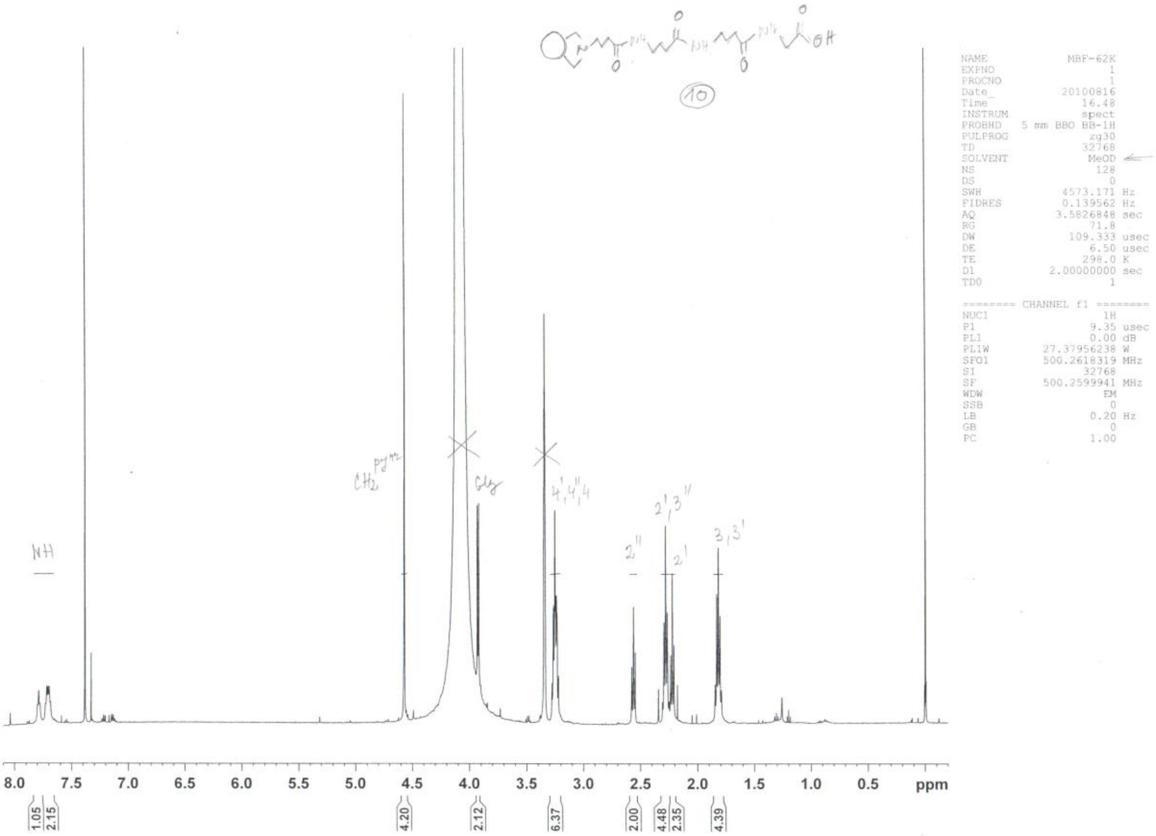

ppm

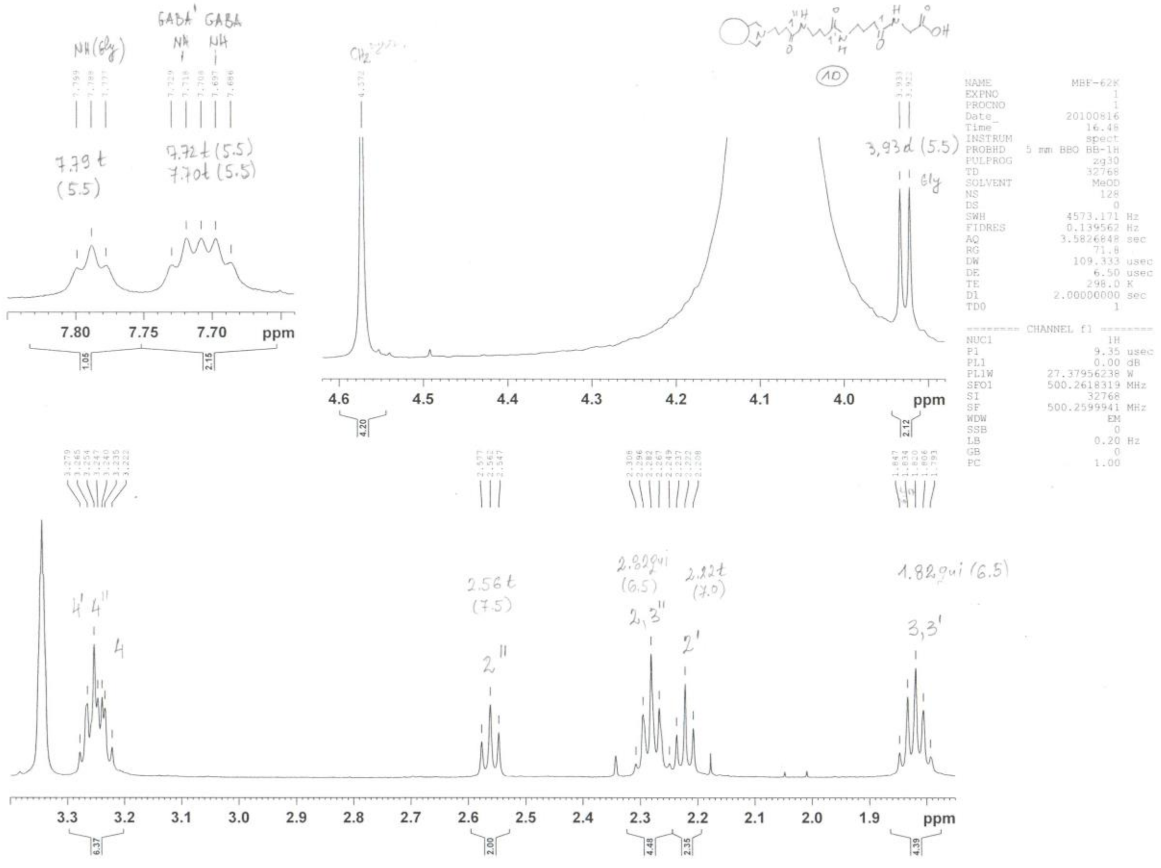

NAME MBF-68K
EXPNO 1
PROCNO 1
Date_ 20100811
Time 13.33
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 163
DS 0
SWH 4807.692 Hz
FIDRES 0.146719 Hz
AQ 3.4079220 sec
RG 71.8
DW 104.000 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618050 MHz
SI 32768
SF 500.2599369 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

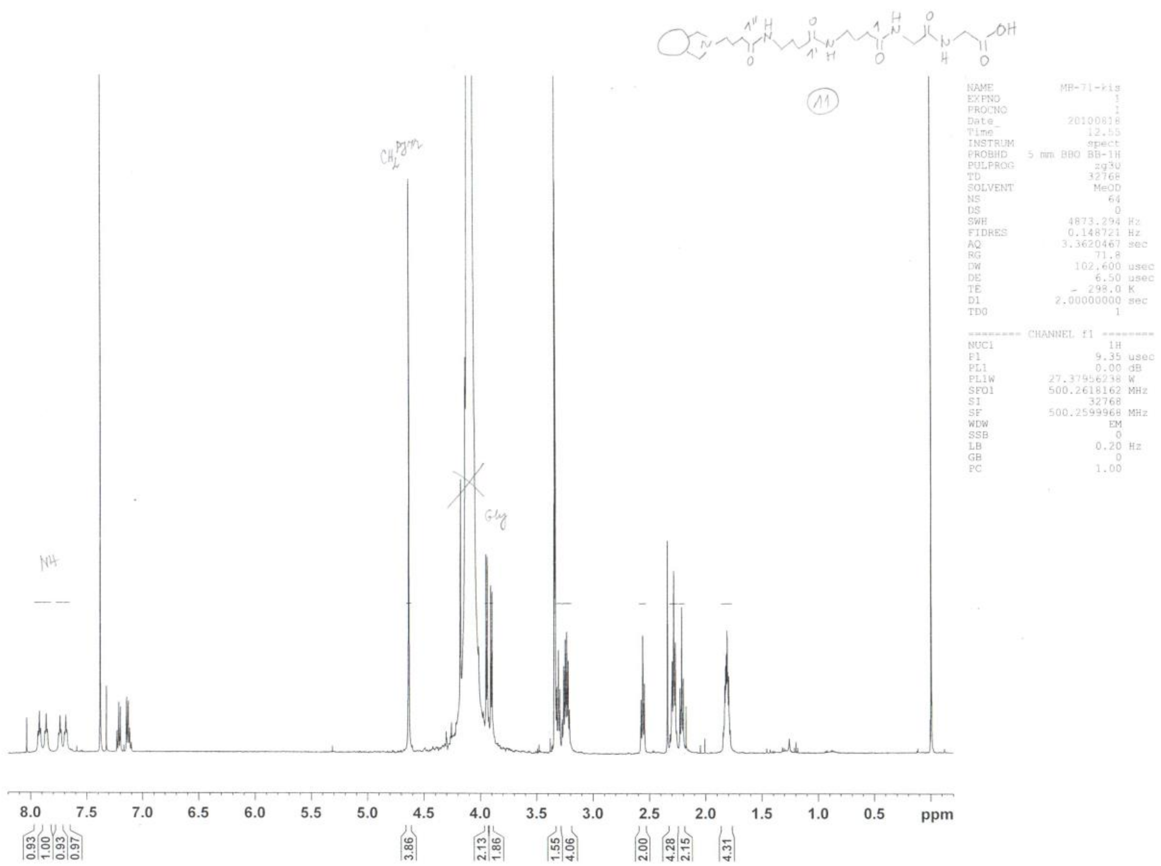

NAME MBF-68K
EXPNO 1
PROCNO 1
Date_ 20100811
Time 13.33
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 163
DS 0
SWH 4807.692 Hz
FIDRES 0.146719 Hz
AQ 3.4079220 sec
RG 71.8
DW 104.000 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618050 MHz
SI 32768
SF 500.2599369 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

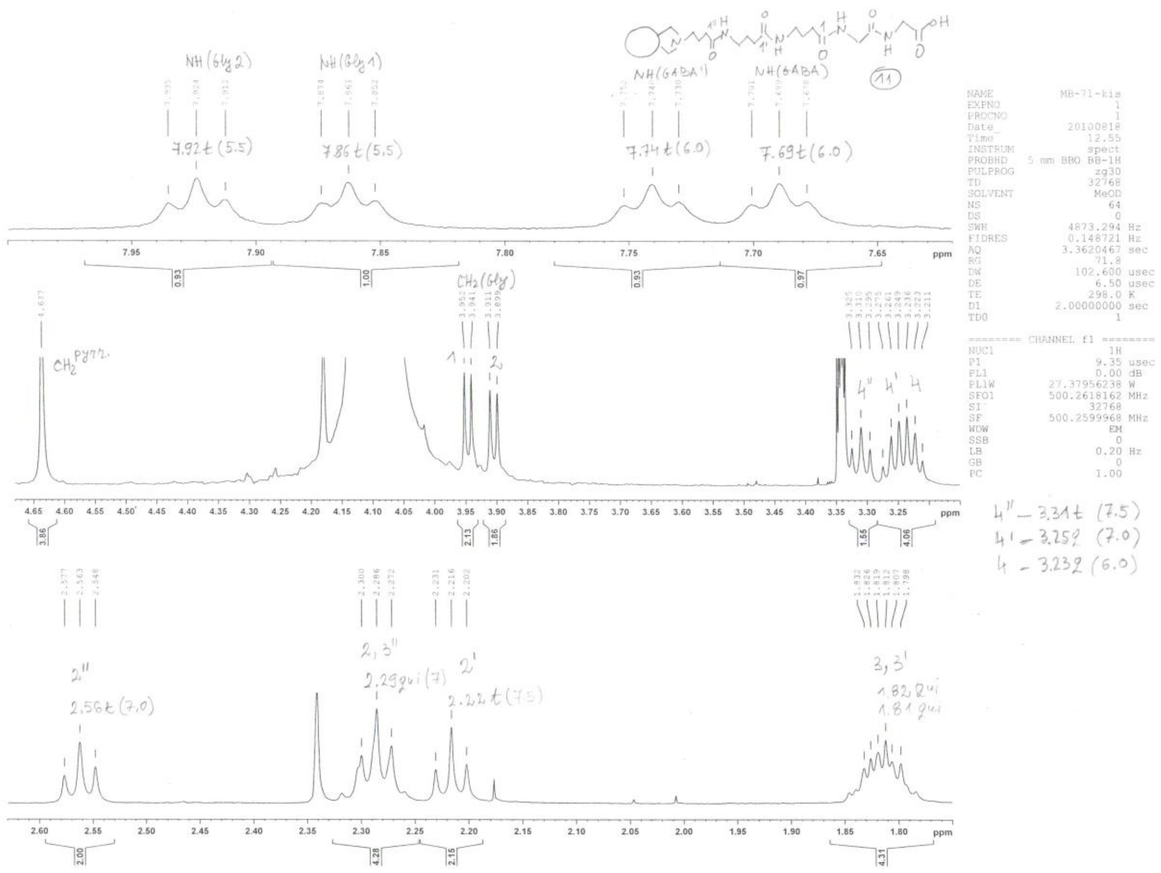

9
NAME MBF-67K
EXPNO 1
PROCNO 1
Date_ 20100812
Time 14.15
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 128
DS 0
SWH 4562.044 Hz
FIDRES 0.139223 Hz
AQ 3.5914228 sec
RG 71.8
DW 109.600 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2620155 MHz
SI 32768
SF 500.2599201 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 ppm
2.25 1.17 1.02 4.13 4.16 1.94 1.97 1.90 2.00 2.23 2.41 2.34

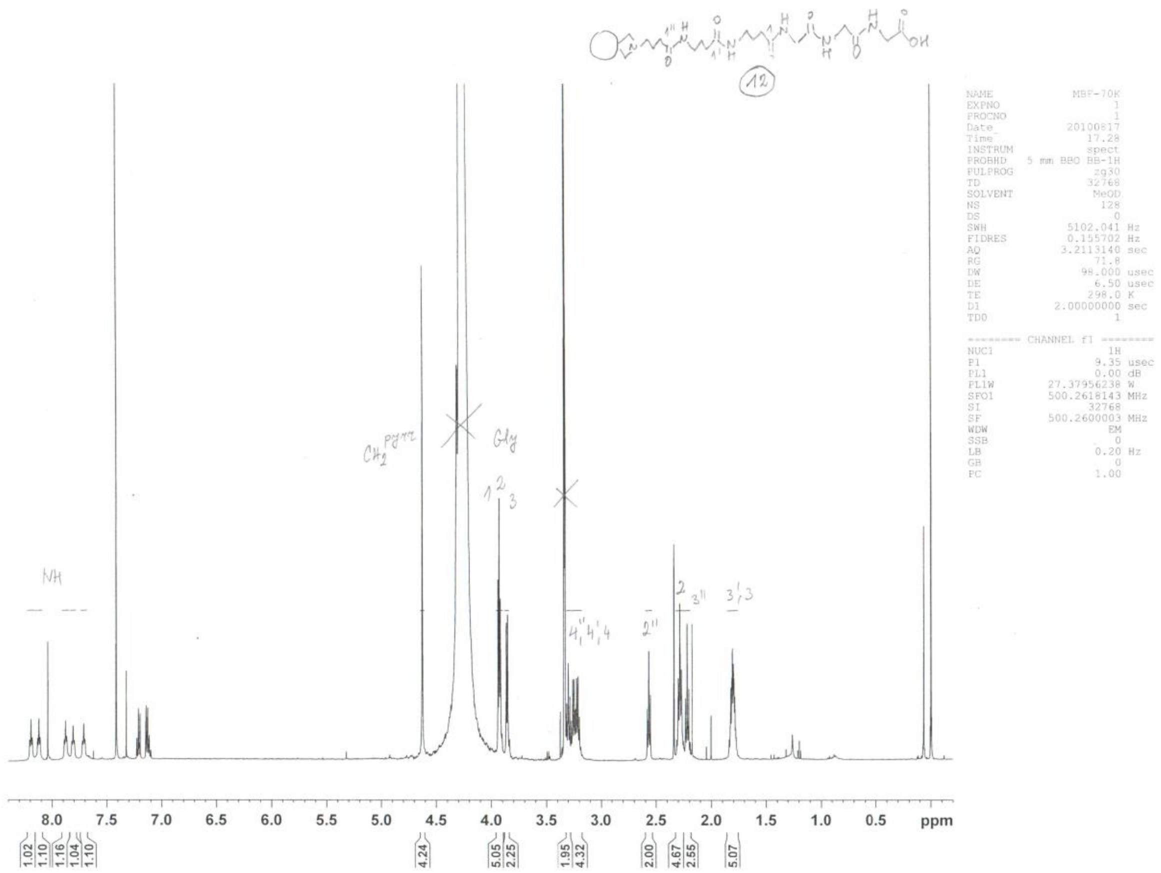

9
NH (Gly 2)
NH (Gly 1)
NH (GABA)
NH (Gly 3)
8.16 t (6.0)
8.13 t (6.0)
7.91 t (5.5)
7.78 t (6.0)
3.92 d (5.5)
3.91 d (5.5)
3.85 d (6.0)
3.26 t (6.5)
3.20 t (7.5)
2.54 t (7.5)
2.31 t (7)
2.25 qui (7.5)
1.83 qui (7.0)
NAME MBF-67K
EXPNO 1
PROCNO 1
Date_ 20100812
Time 14.15
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 128
DS 0
SWH 4562.044 Hz
FIDRES 0.139223 Hz
AQ 3.5914228 sec
RG 71.8
DW 109.600 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2620155 MHz
SI 32768
SF 500.2599201 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00

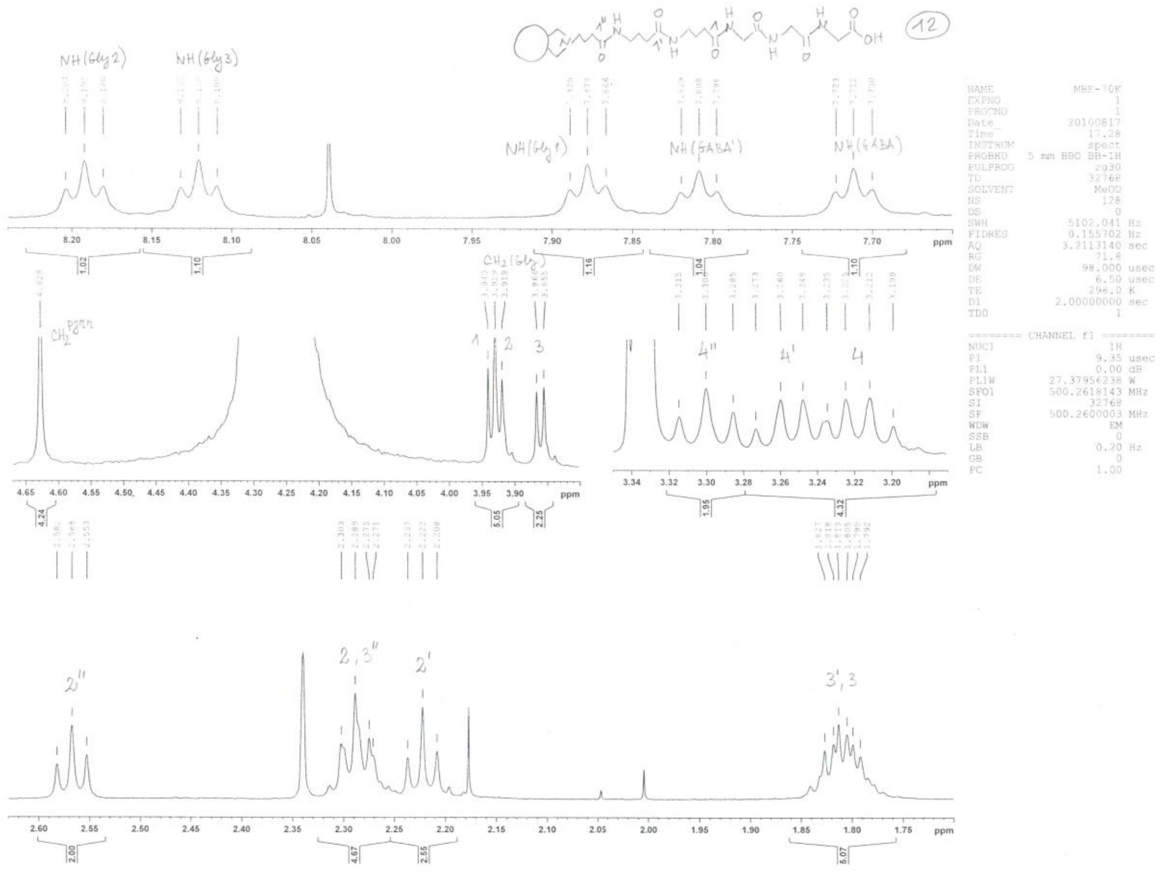

NAME MBF-62K
EXPNO 1
PROCNO 1
Date_ 20100816
Time 16.48
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT MeOD
NS 128
DS 0
SWH 4573.171 Hz
FIDRES 0.139562 Hz
AQ 3.5826848 sec
RG 71.8
DW 109.333 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618319 MHz
SI 32768
SF 500.2599941 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm
1.05
2.15
4.20
2.12
6.37
2.00
4.48
2.35
4.39


ppm
1.05
2.15
4.20
2.12
6.37
2.00
4.48
2.35
4.39

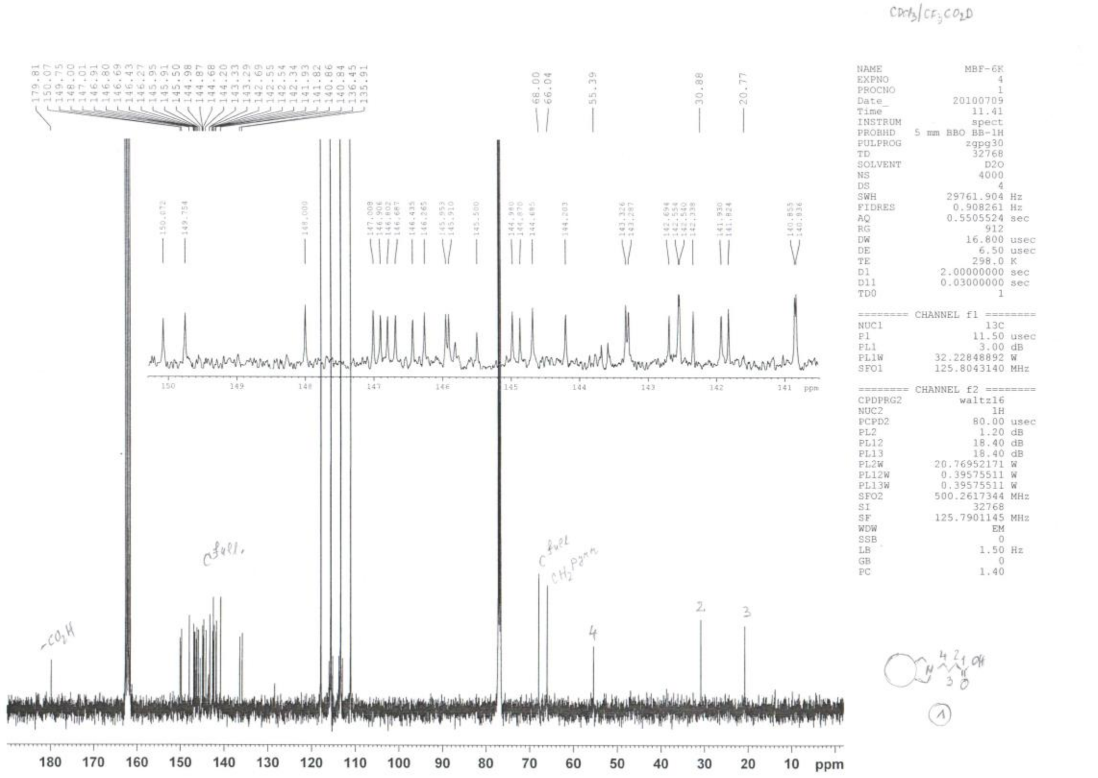

NAME MB-71-bis
EXPNO 1
PROCNO 1
Date_ 20100818
Time 12.55
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT MeOD
NS 64
DS 0
SWH 4873.294 Hz
FIDRES 0.148721 Hz
AQ 3.3620467 sec
RG 71.8
DW 102.600 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618162 MHz
SI 32768
SF 500.2599968 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm
0.93
1.00
0.93
0.97
3.86
2.13
1.86
1.55
4.06
2.00
4.28
2.15
4.31

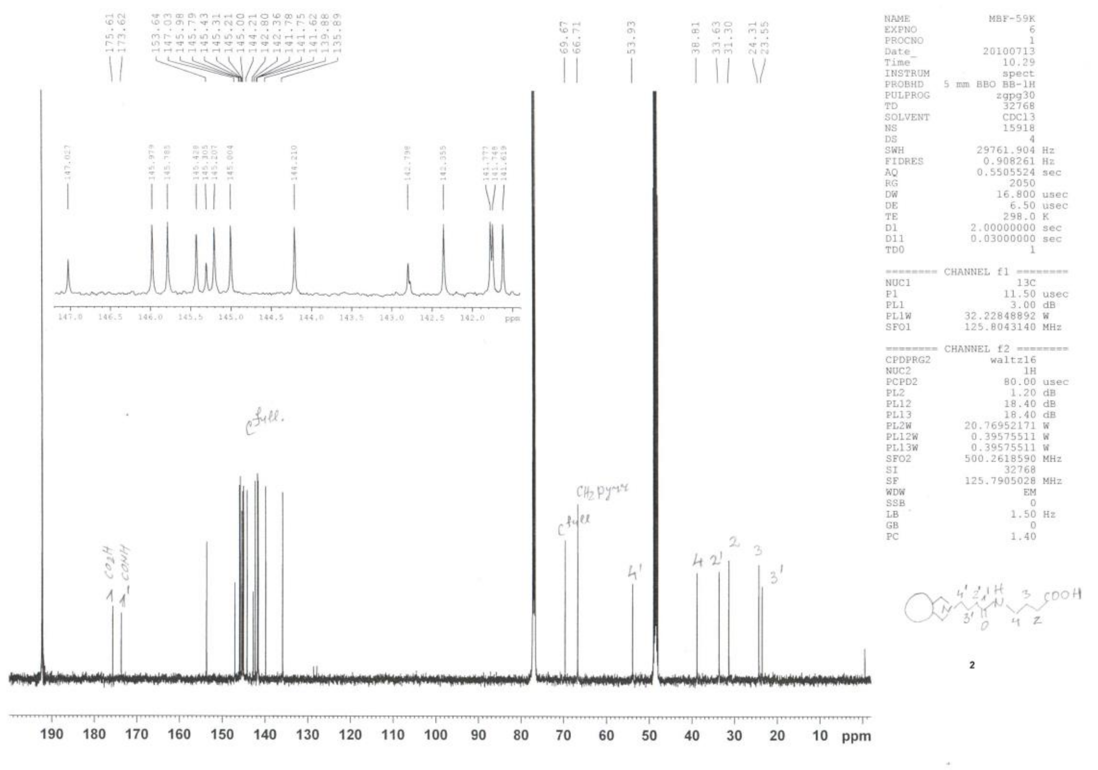

NAME MB-71-bis
EXPNO 1
PROCNO 1
Date_ 20100818
Time 12.55
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT MeOD
NS 64
DS 0
SWH 4873.294 Hz
FIDRES 0.148721 Hz
AQ 3.3620467 sec
RG 71.8
DW 102.600 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618162 MHz
SI 32768
SF 500.2599968 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

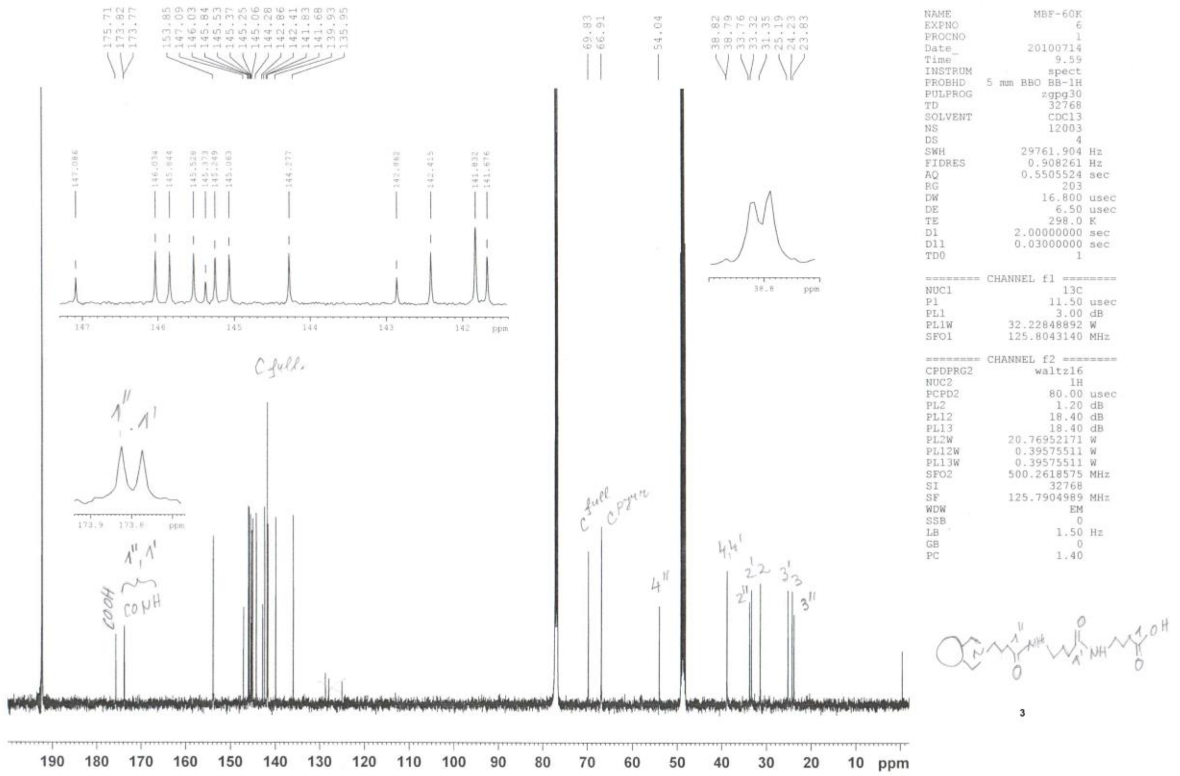

NAME MBF-70K
EXPNO 1
PROCNO 1
Date_ 20100817
Time 17.28
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT MeOD
NS 128
DS 0
SWH 5102.041 Hz
FIDRES 0.155702 Hz
AQ 3.2113140 sec
RG 71.8
DW 98.000 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618143 MHz
SI 32768
SF 500.2600003 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

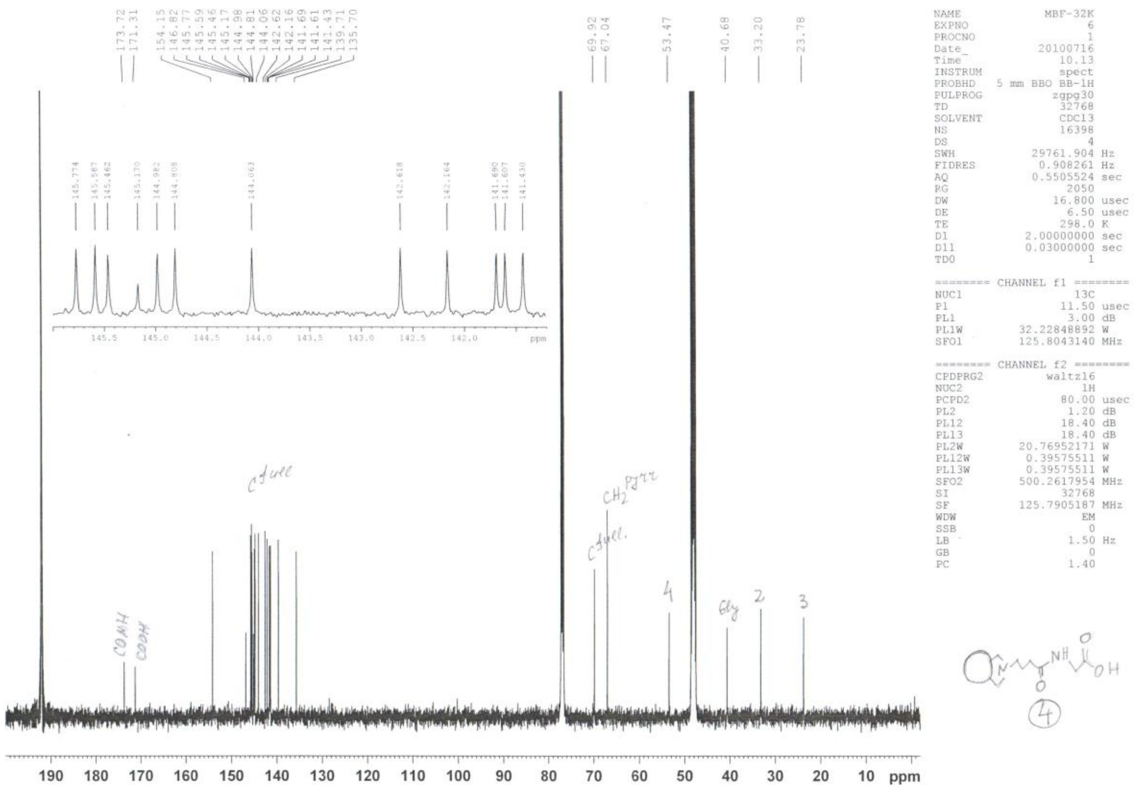

NAME MBF-70K
EXPNO 1
PROCNO 1
Date_ 20100817
Time 17.28
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 32768
SOLVENT MeOD
NS 128
DS 0
SWH 5102.041 Hz
FIDRES 0.155702 Hz
AQ 3.2113140 sec
RG 71.8
DW 98.000 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 1H
P1 9.35 usec
PL1 0.00 dB
PL1W 27.37956238 W
SFO1 500.2618143 MHz
SI 32768
SF 500.2600003 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00
ppm

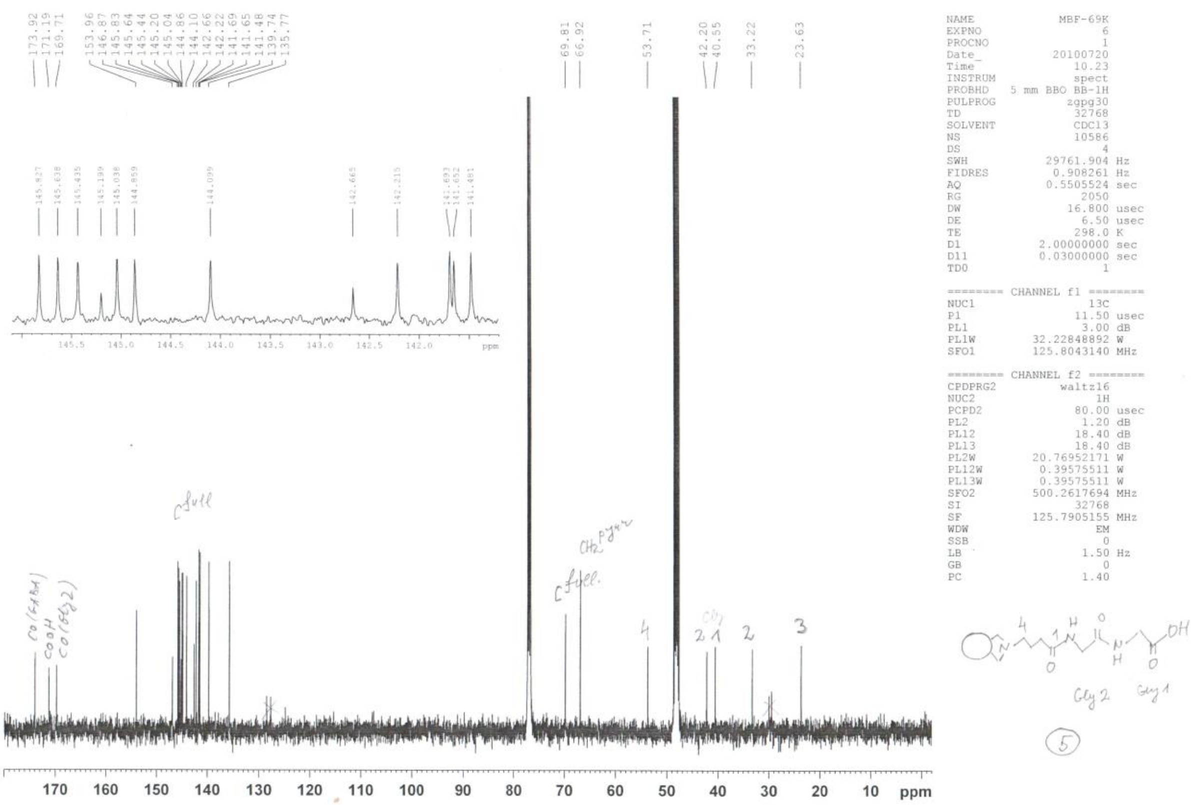
^{13}C NMR spectra of 1-12

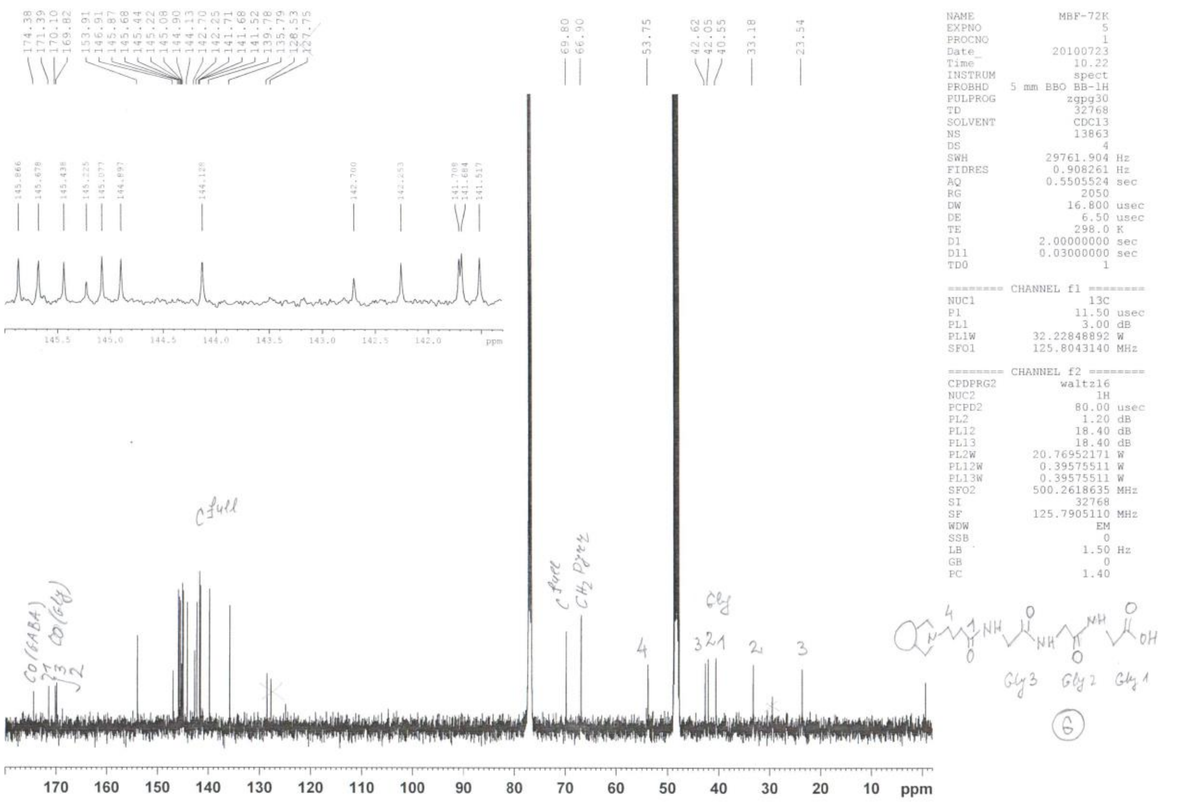


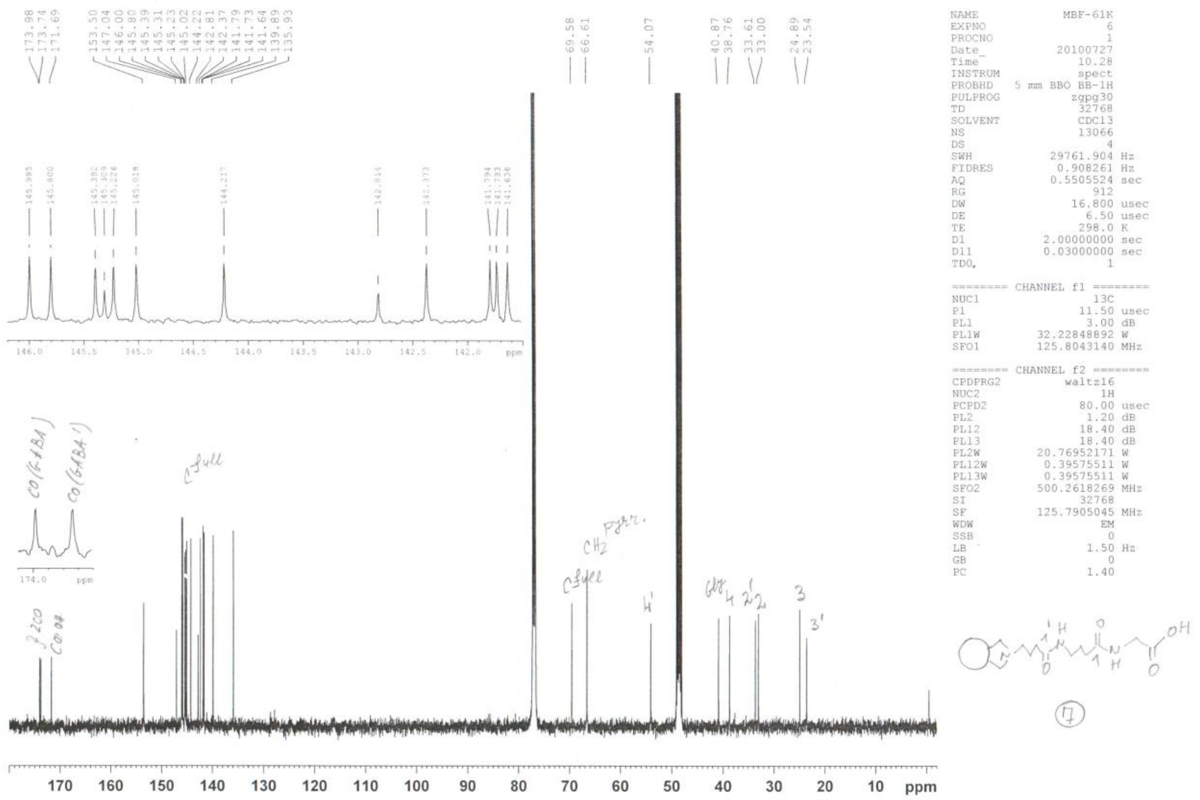



175.71
173.82
173.77
153.85
147.09
146.03
145.84
145.53
145.37
145.25
145.06
144.28
142.86
142.41
141.83
141.68
139.93
135.95
69.83
66.91
54.04
38.82
38.79
33.76
33.32
31.35
25.19
24.23
23.83
NAME MBF-60K
EXPNO 6
PROCNO 1
Date_ 20100714
Time 9.59
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 12003
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 203
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2618575 MHz
SI 32768
SF 125.7904989 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40
3
190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm

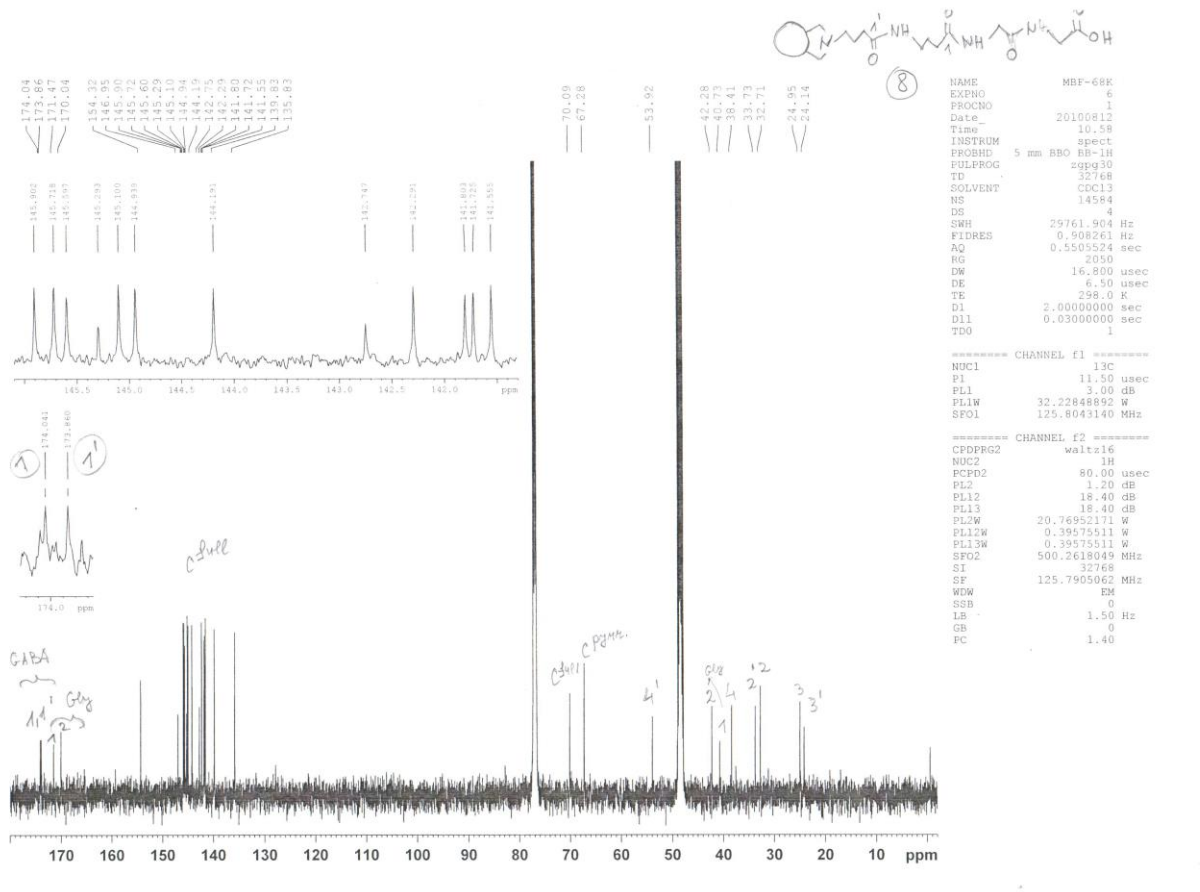

173.72
171.31
154.15
146.82
145.77
145.59
145.46
145.17
144.98
144.81
144.06
142.62
142.16
141.69
141.61
141.43
139.71
135.70
69.92
67.04
53.47
40.68
33.20
23.78
NAME MBF-32K
EXPNO 6
PROCNO 1
Date_ 20100716
Time 10.13
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 16398
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2617954 MHz
SI 32768
SF 125.7905187 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40
190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm


173.92
171.19
169.71
153.96
146.87
145.83
145.64
145.44
145.20
145.04
144.86
144.10
142.66
142.22
141.69
141.65
141.48
139.74
135.77
69.81
66.92
53.71
42.20
40.55
33.22
23.63
170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm
NAME MBF-69K
EXPNO 6
PROCNO 1
Date_ 20100720
Time 10.23
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 10586
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2617694 MHz
SI 32768
SF 125.7905155 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40

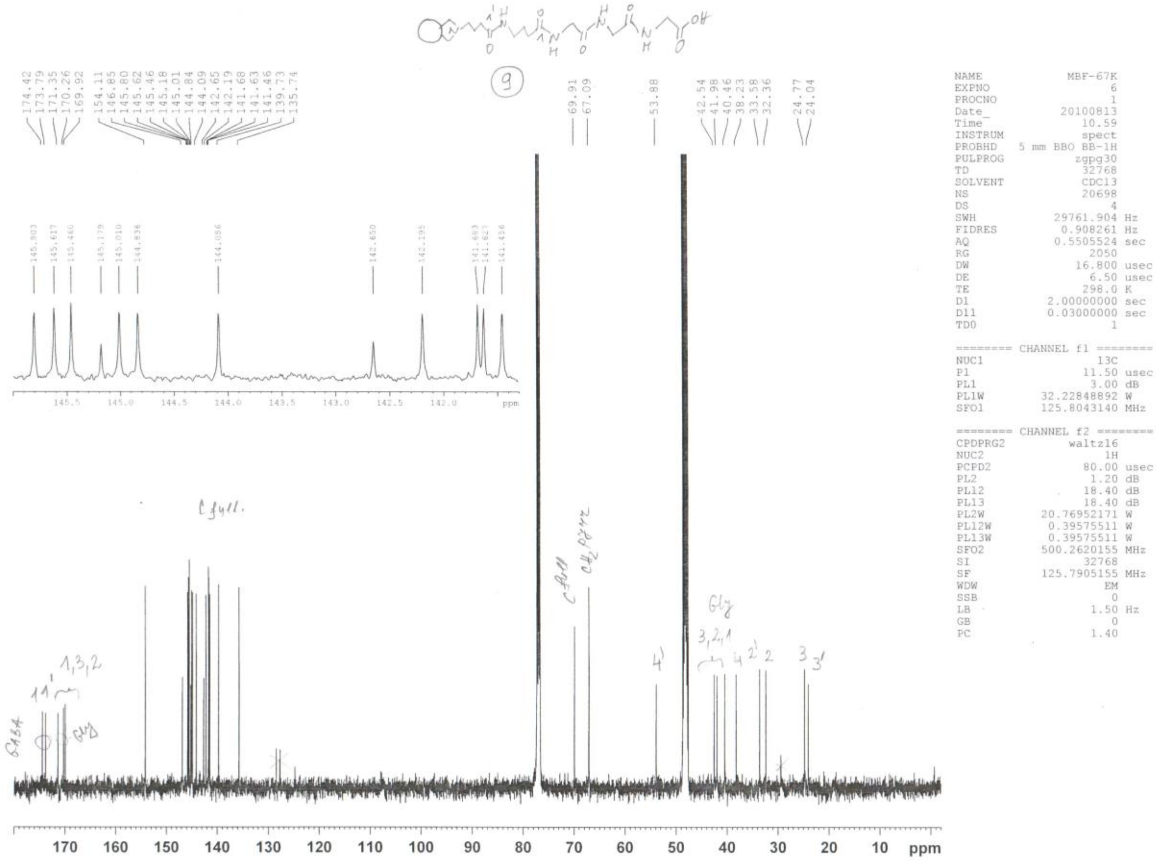

174.38
171.39
170.10
169.82
153.91
146.91
145.87
145.68
145.44
145.22
145.08
144.90
144.13
142.70
142.25
141.71
141.68
141.52
139.78
135.79
128.53
127.75
69.80
66.90
53.75
42.62
42.05
40.55
33.18
23.54
170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ppm
NAME MBF-72K
EXPNO 5
PROCNO 1
Date_ 20100723
Time 10.22
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 13863
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2618635 MHz
SI 32768
SF 125.7905110 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40

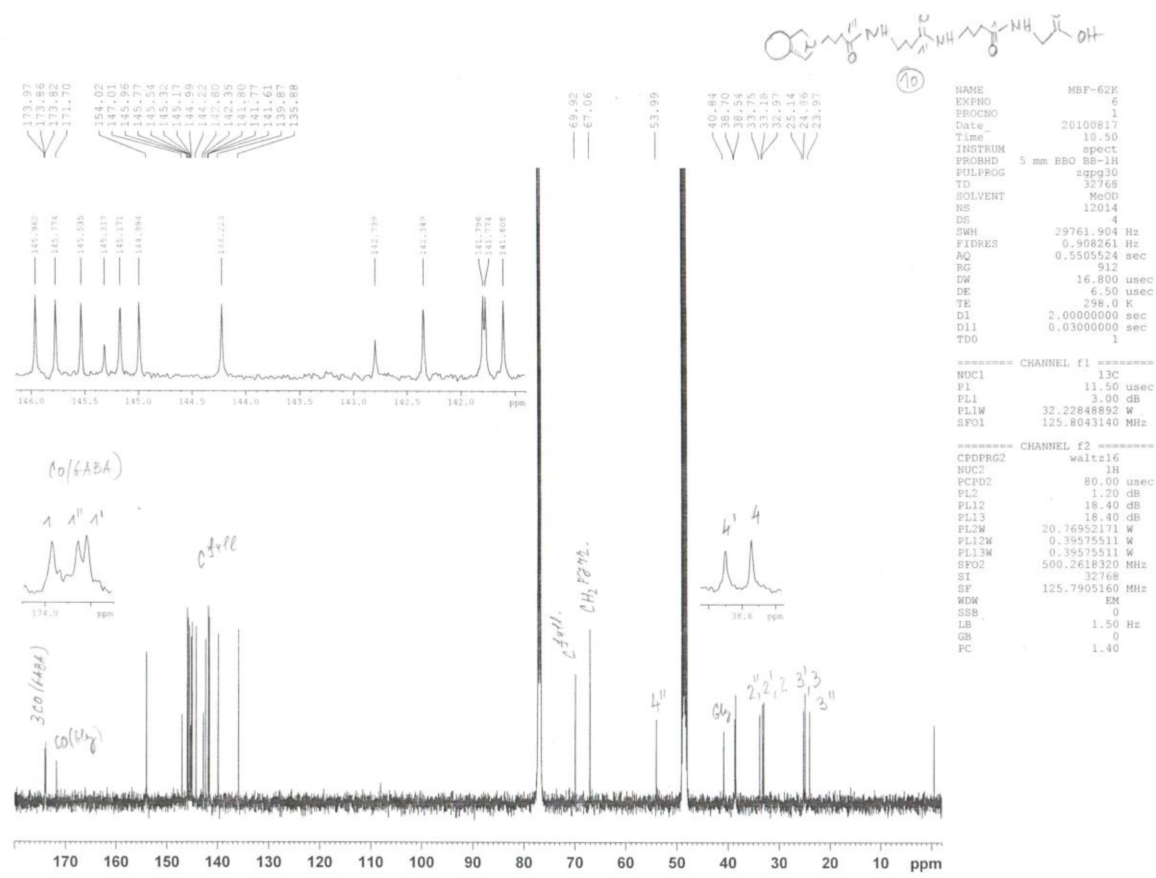

173.98
173.74
171.69
153.50
147.04
146.00
145.80
145.39
145.31
145.23
145.02
144.22
142.81
142.37
141.79
141.73
141.64
139.89
135.93
69.58
66.61
54.07
40.87
38.76
33.61
33.00
24.89
23.54
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
ppm
NAME MBF-61K
EXPNO 6
PROCNO 1
Date_ 20100727
Time 10.28
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 13066
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 912
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2618269 MHz
SI 32768
SF 125.7905045 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40

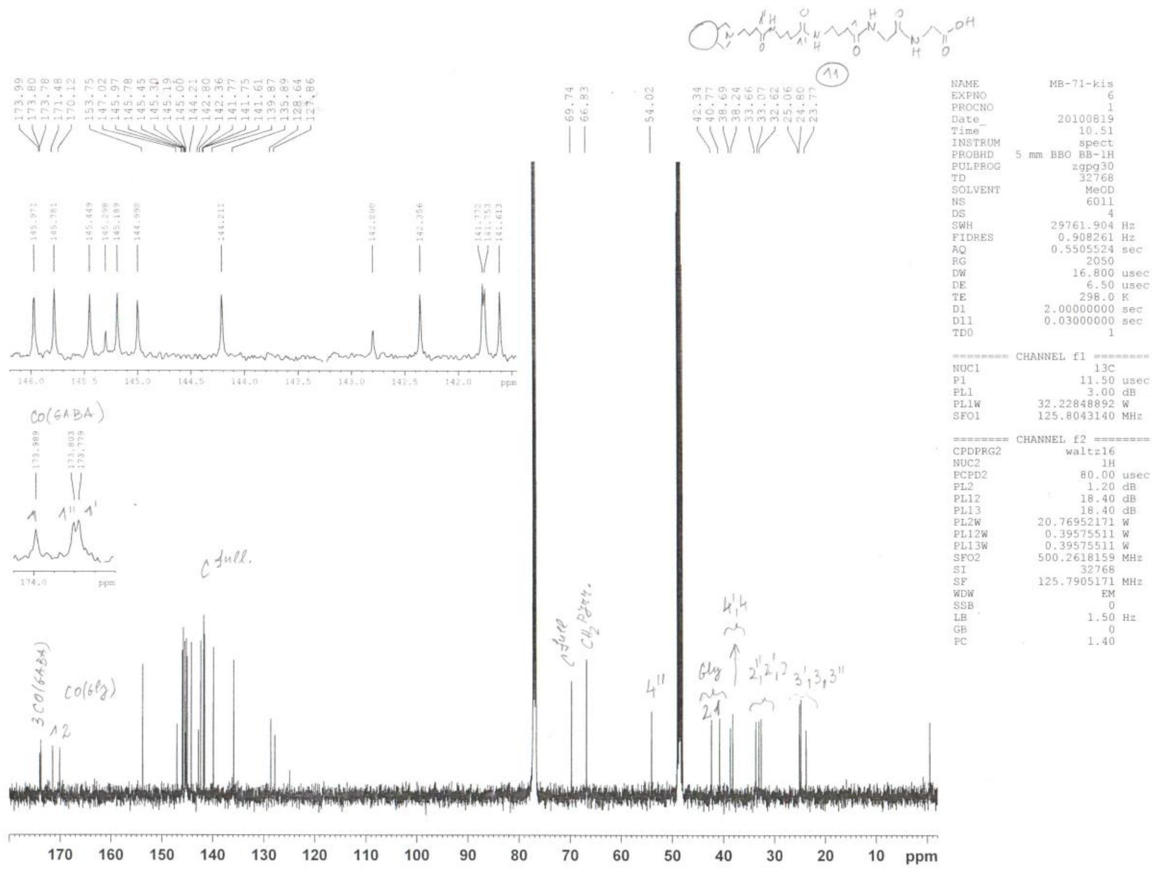
(7)

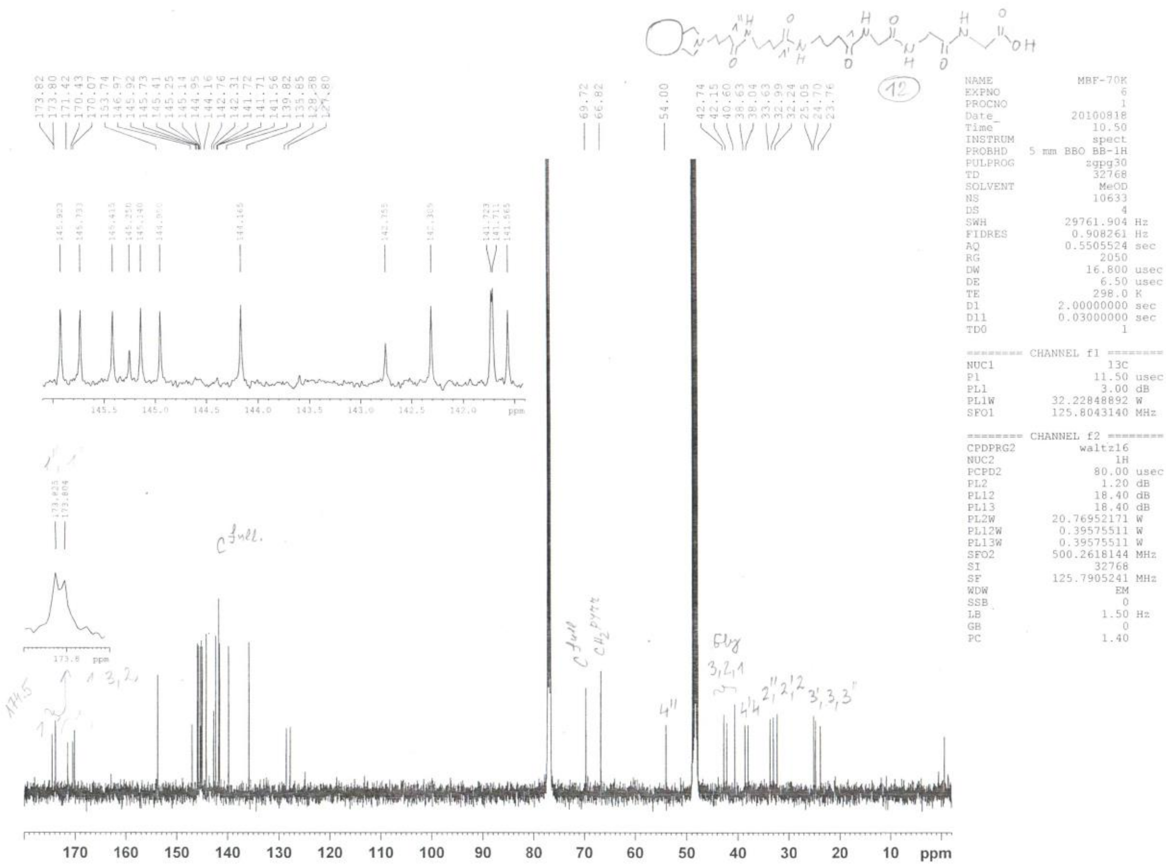

174.04
173.86
171.47
170.04
154.32
146.95
145.90
145.72
145.60
145.29
145.10
144.94
144.19
142.75
142.29
141.80
141.72
141.55
139.83
135.83
70.09
67.28
53.92
42.28
40.73
38.41
33.73
32.71
24.95
24.14
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
ppm
NAME MBF-68K
EXPNO 6
PROCNO 1
Date_ 20100812
Time 10.58
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 14584
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2618049 MHz
SI 32768
SF 125.7905062 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40

(8)

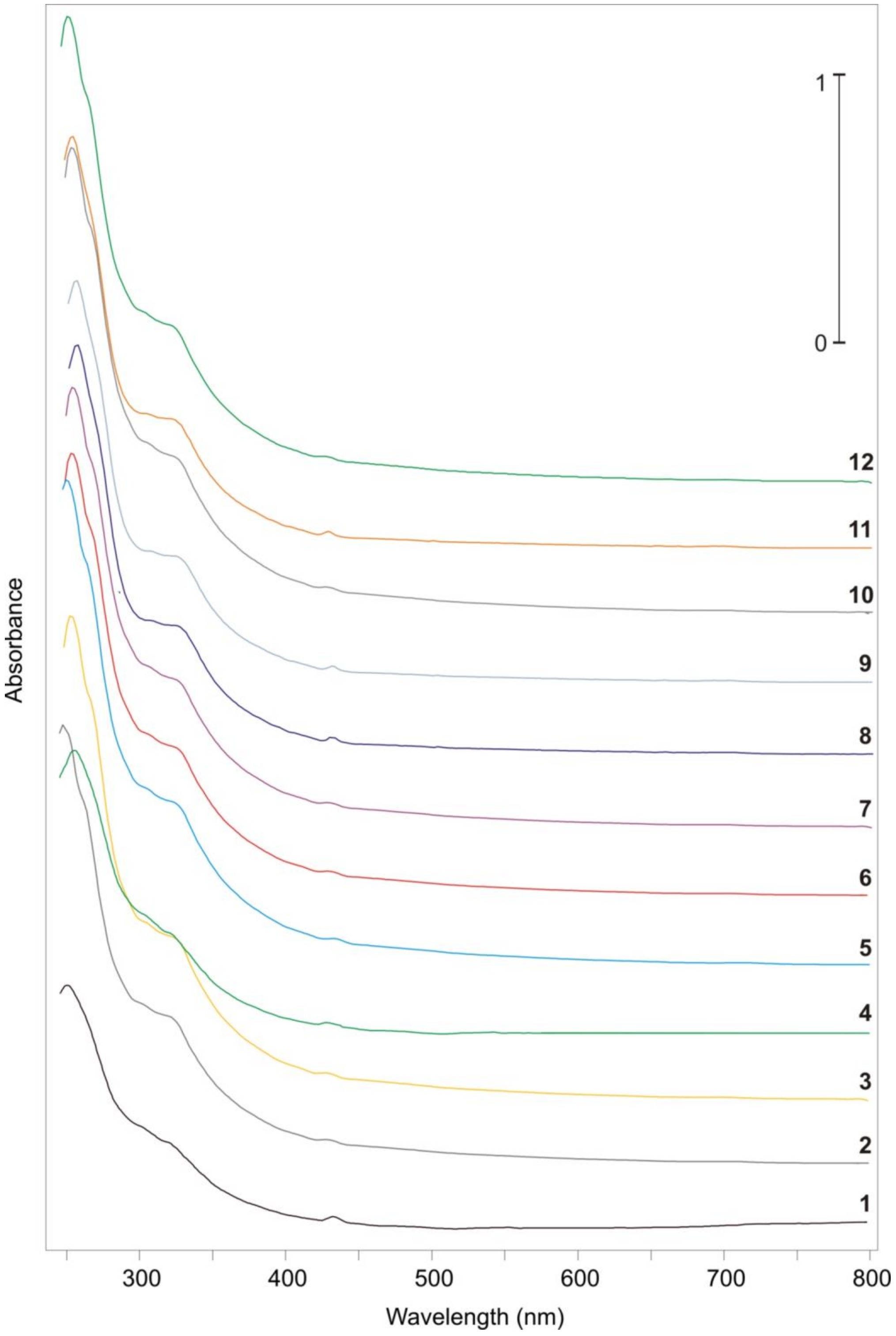

9
NAME MBF-67K
EXPNO 6
PROCNO 1
Date_ 20100813
Time 10.59
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT CDCl3
NS 20698
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
CHANNEL f1
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
CHANNEL f2
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2620155 MHz
SI 32768
SF 125.7905155 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40
ppm


10
NAME MBF-62K
EXPNO 6
PROCNO 1
Date_ 20100817
Time 10.50
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT MeOD
NS 12014
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 912
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
CHANNEL f1
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
CHANNEL f2
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2618320 MHz
SI 32768
SF 125.7905160 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40
ppm

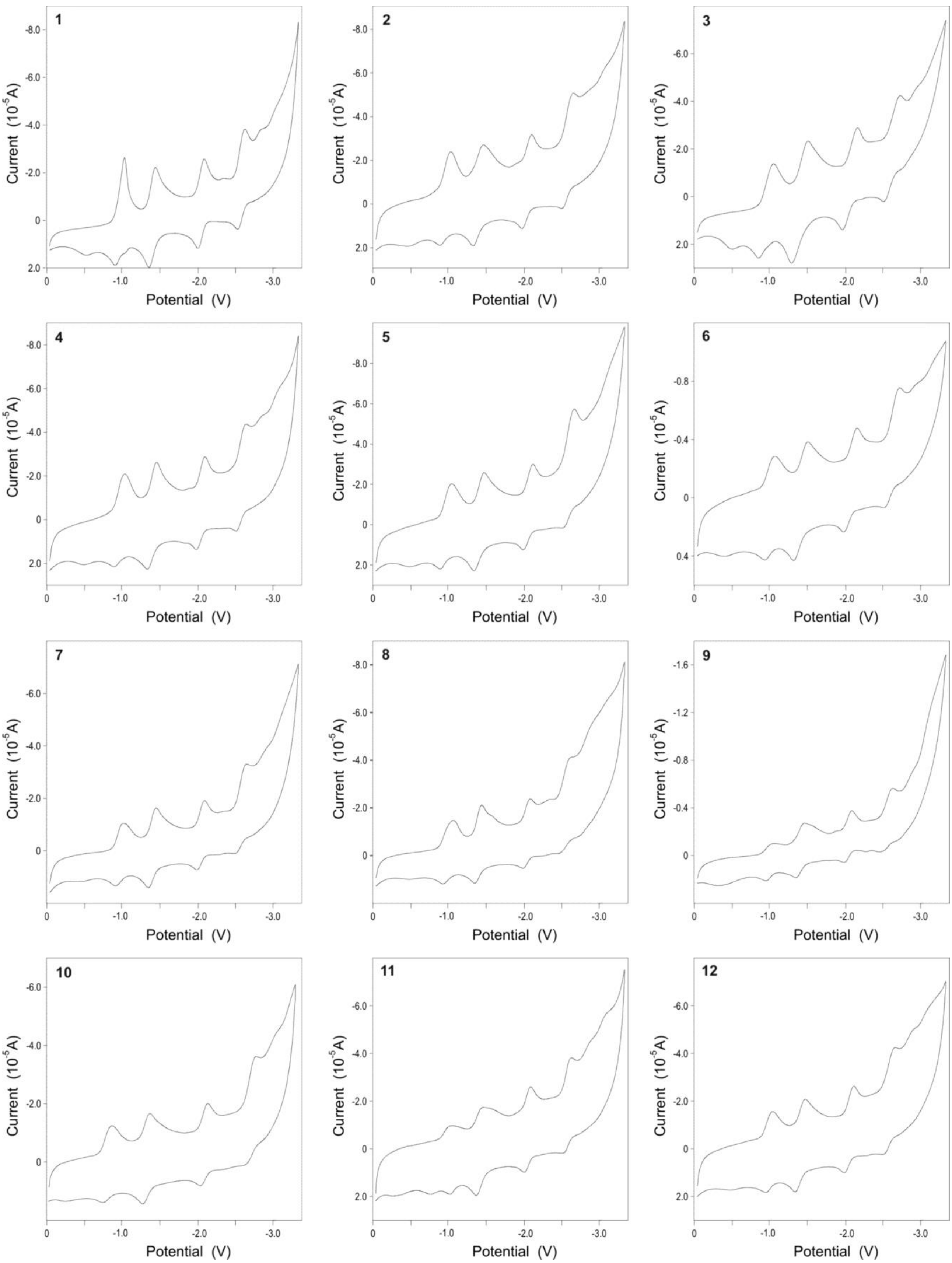

NAME MB-71-kis
EXPNO 6
PROCNO 1
Date_ 20100819
Time 10.51
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT MeOD
NS 6011
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2618159 MHz
SI 32768
SF 125.7905171 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40
ppm


NAME MBF-70K
EXPNO 6
PROCNO 1
Date_ 20100818
Time 10.50
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zgpg30
TD 32768
SOLVENT MeOD
NS 10633
DS 4
SWH 29761.904 Hz
FIDRES 0.908261 Hz
AQ 0.5505524 sec
RG 2050
DW 16.800 usec
DE 6.50 usec
TE 298.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1
======== CHANNEL f1 ========
NUC1 13C
P1 11.50 usec
PL1 3.00 dB
PL1W 32.22848892 W
SFO1 125.8043140 MHz
======== CHANNEL f2 ========
CPDPRG2 waltz16
NUC2 1H
PCPD2 80.00 usec
PL2 1.20 dB
PL12 18.40 dB
PL13 18.40 dB
PL2W 20.76952171 W
PL12W 0.39575511 W
PL13W 0.39575511 W
SFO2 500.2618144 MHz
SI 32768
SF 125.7905241 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
PC 1.40
ppm

UV spectra of compounds 1-12



Cyclic voltammograms of compounds 1-12



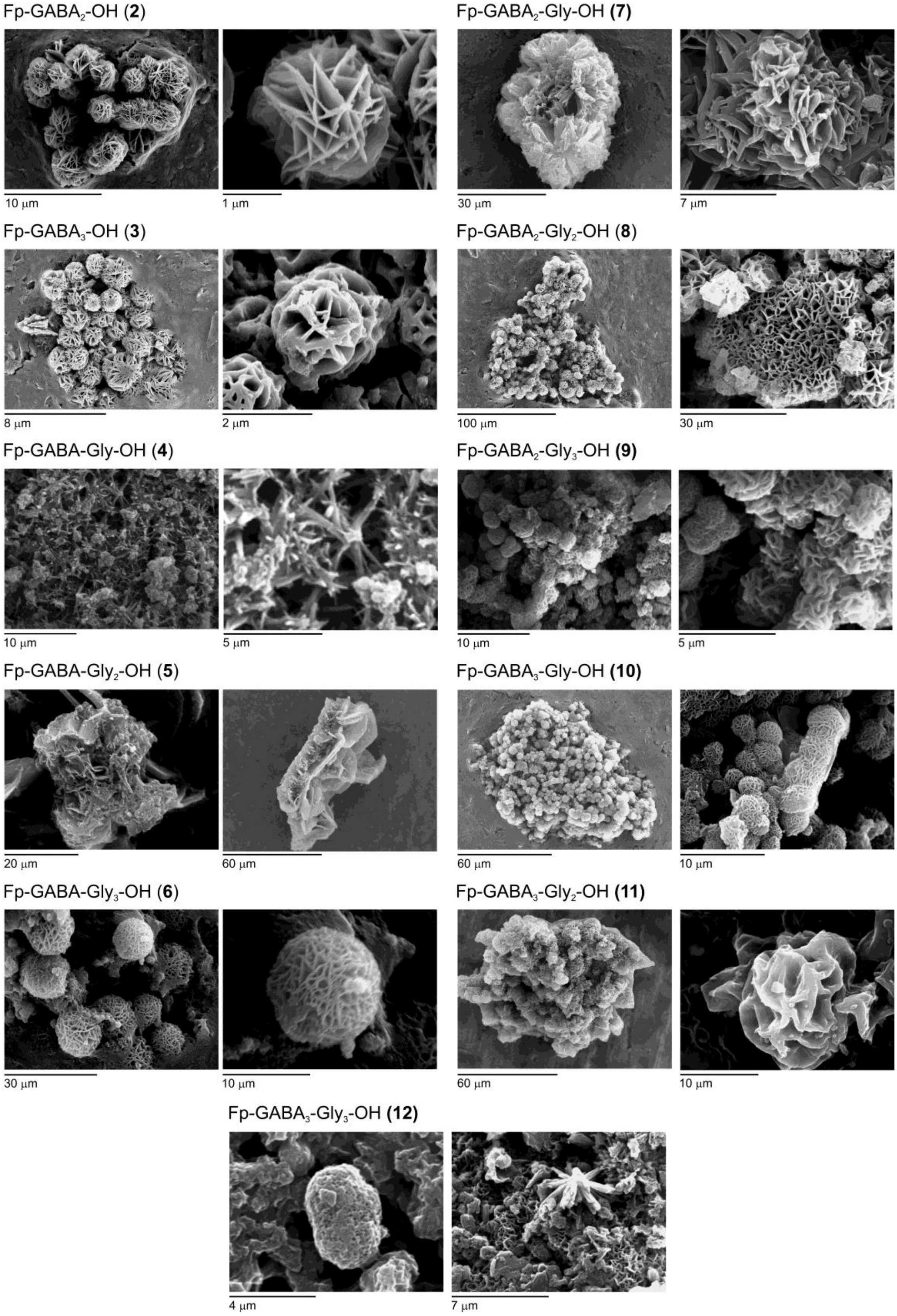


Figure S1 SEM images of fulleropeptide acids **2-12** deposited on a brass substrate after precipitation with MeOH

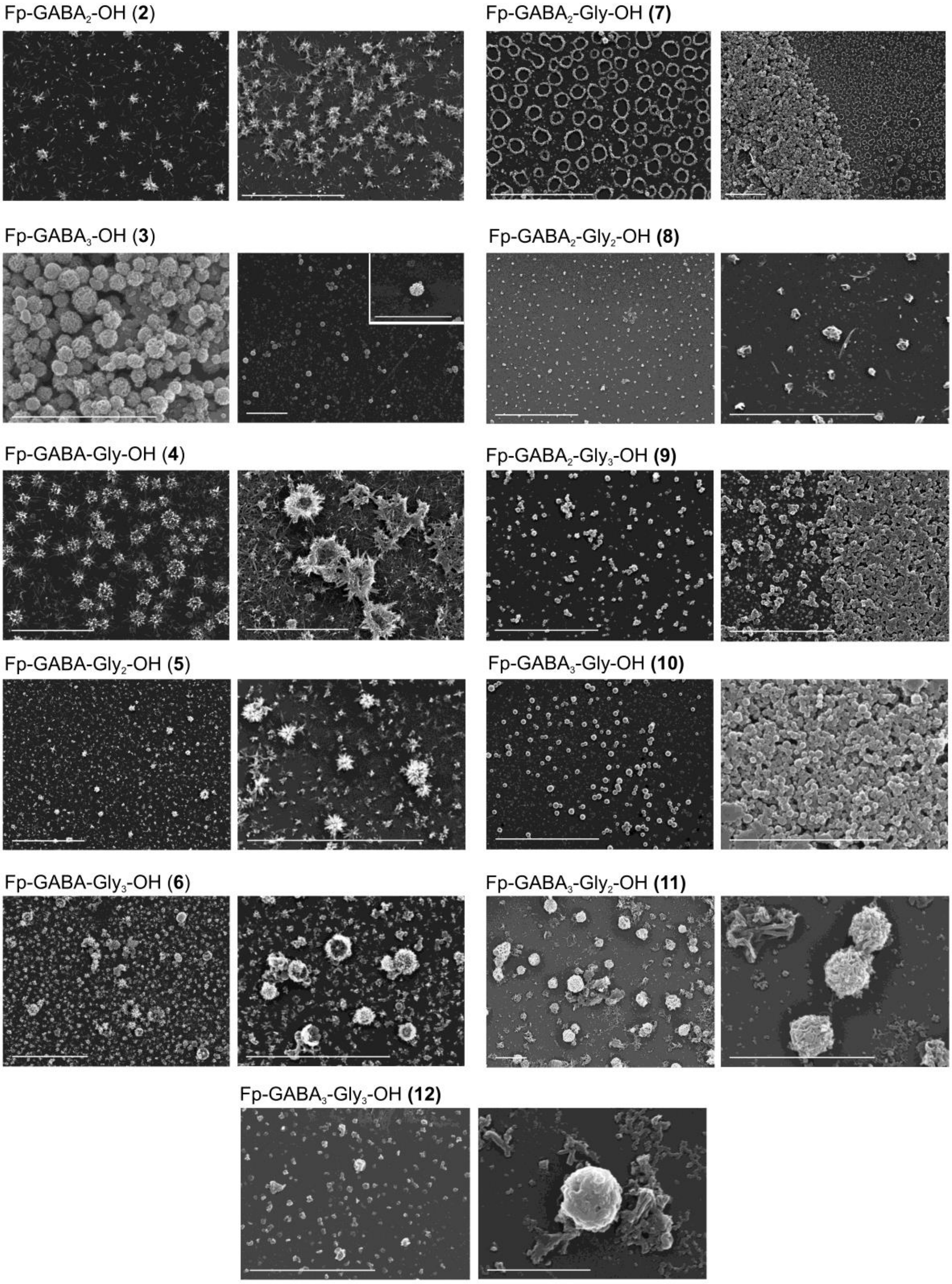


Figure S2 SEM images of compounds **2-12** prepared from PhMe/MeOH (5/1, v/v) mixture on a Si substrate upon evaporation of 10 µl of 1mM solution at room temperature; inset on **3**: 10 µL of 0.1mM solution; **9** and **10**, right, 30 µL of 1mM solution.