Supporting information

Supporting information 1

Chromatograms and MS/MS spectra of TGZQ at *m/z* 456.0 ([TGZQ - H]$^-$) from: (A) Electrochemical oxidation of troglitazone in a 0.1 M phosphate buffer (pH 7.4)/acetonitrile at +300 mV; (B) Incubation of troglitazone with HLM and NADPH in a 0.1 M phosphate buffer (pH 7.4) at 37 °C; (**C**) Incubation of troglitazone with RLM and NADPH in a 0.1 M phosphate buffer (pH 7.4) at 37 °C

Supporting information 2

MS/MS spectrum of the GSH conjugate at *m/z* 763.2 obtained from electrochemical oxidation of troglitazone in the presence of GSH in a 0.1 M phosphate buffer (pH 7.4)/acetonitrile at +500 mV.

Supporting information 3

MS/MS-spectrum of the GSH conjugate at *m/z* 781.2 obtained from electrochemical oxidation of troglitazone in the presence of GSH in 0.1 M phosphate buffer (pH 7.4) / acetonitrile at +800 mV.

Supporting information 4

Chromatograms and MS/MS spectra of TGZ-NAC thioether conjugate at *m/z* 601.2 ([TGZ-NAC - H]$^-$) from: (A) Electrochemical oxidation of troglitazone in the presence of *N*-acetylcysteine in a 0.1 M phosphate buffer (pH 7.4)/acetonitrile at +200 mV; (B) Incubation of troglitazone with HLM, *N*-acetylcysteine, and NADPH 0.1 M phosphate buffer (pH 7.4) at 37 °C; (C) Incubation of troglitazone with RLM, *N*-acetylcysteine, and NADPH 0.1 M phosphate buffer (pH 7.4) at 37 °C

Supporting information 5

The ^{13}C NMR spectrum of the TGZ-NAC conjugate (in DMSO-d_6) generated by electrochemical oxidation of TGZ in 0.1 M phosphate buffer (pH 7.4)/acetonitrile in the presence of *N*-acetylcysteine at +200 mV.

Supporting information 6

^{1}H NMR spectrum of TGZ (in DMSO-d_6).

Supporting information 7

^{13}C NMR spectrum of TGZ (in DMSO-d_6).

Supporting information 8

COSY spectrum of the electrochemically synthesized TGZ-NAC thioether conjugate in DMSO-d_6.

Supporting information 9

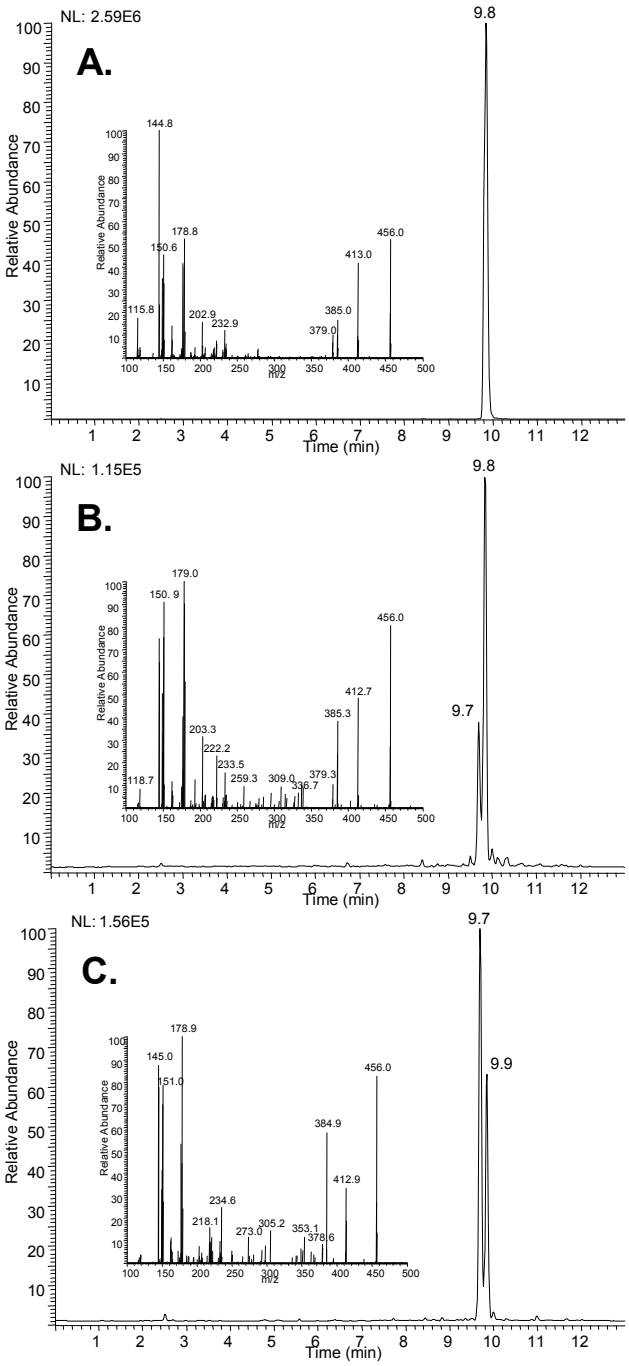
ROESY spectrum of the electrochemically synthesized TGZ-NAC thioether conjugate in DMSO-d_6.

Supporting information 10

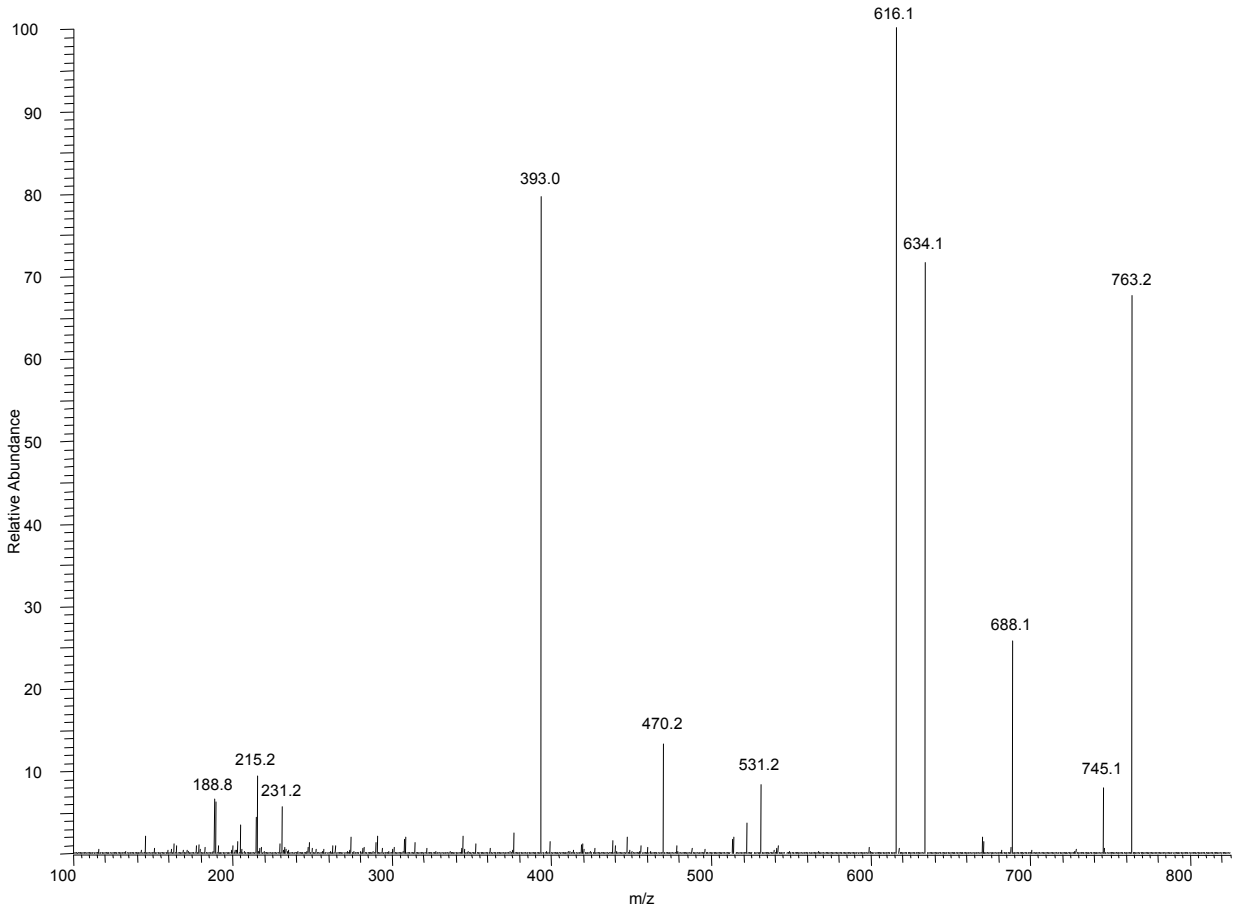
HSQC spectrum of the electrochemically synthesized TGZ-NAC thioether conjugate in DMSO-d_6.

Supporting information 11

HMBC spectrum of the electrochemically synthesized TGZ-NAC thioether conjugate in DMSO-d_6.



Supporting information 1



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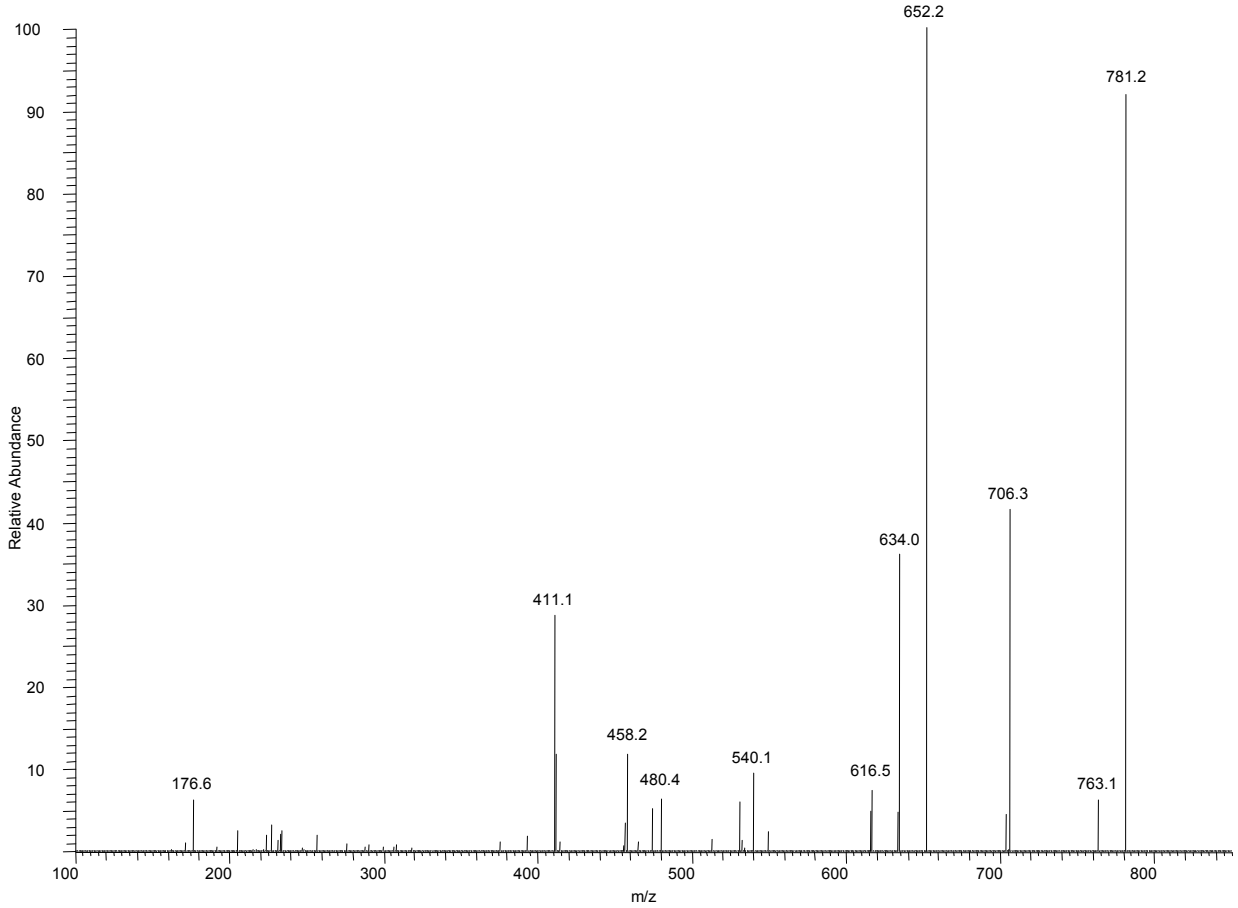

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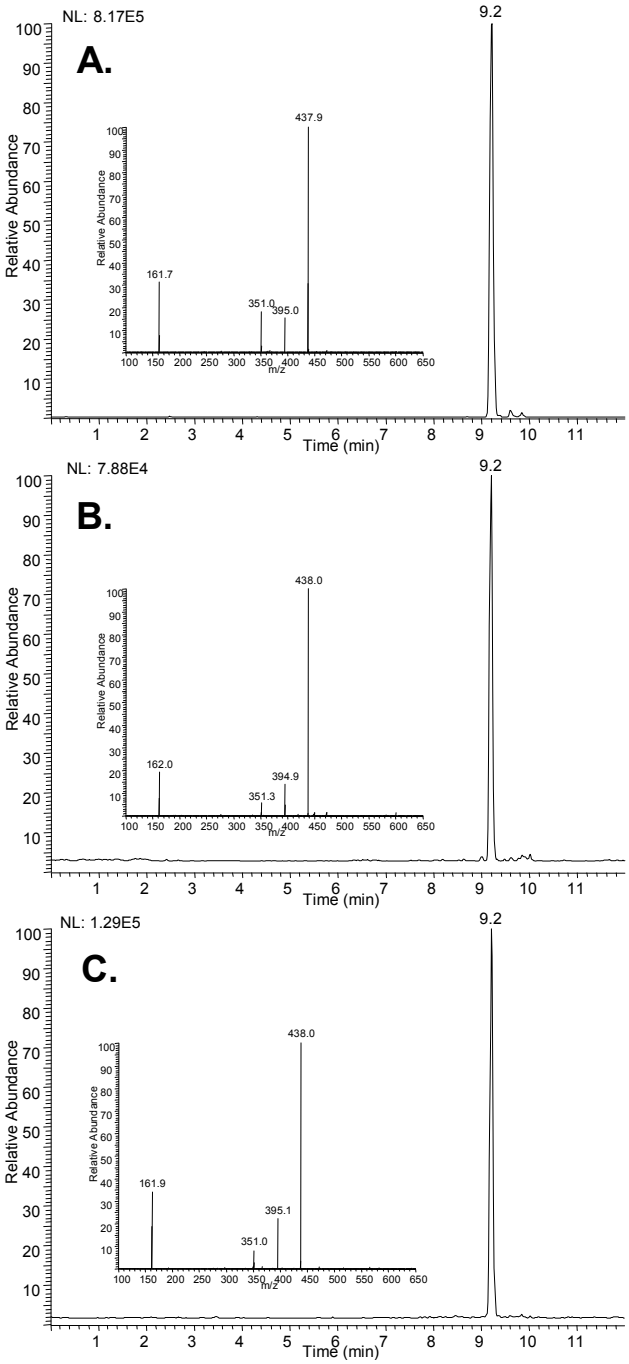

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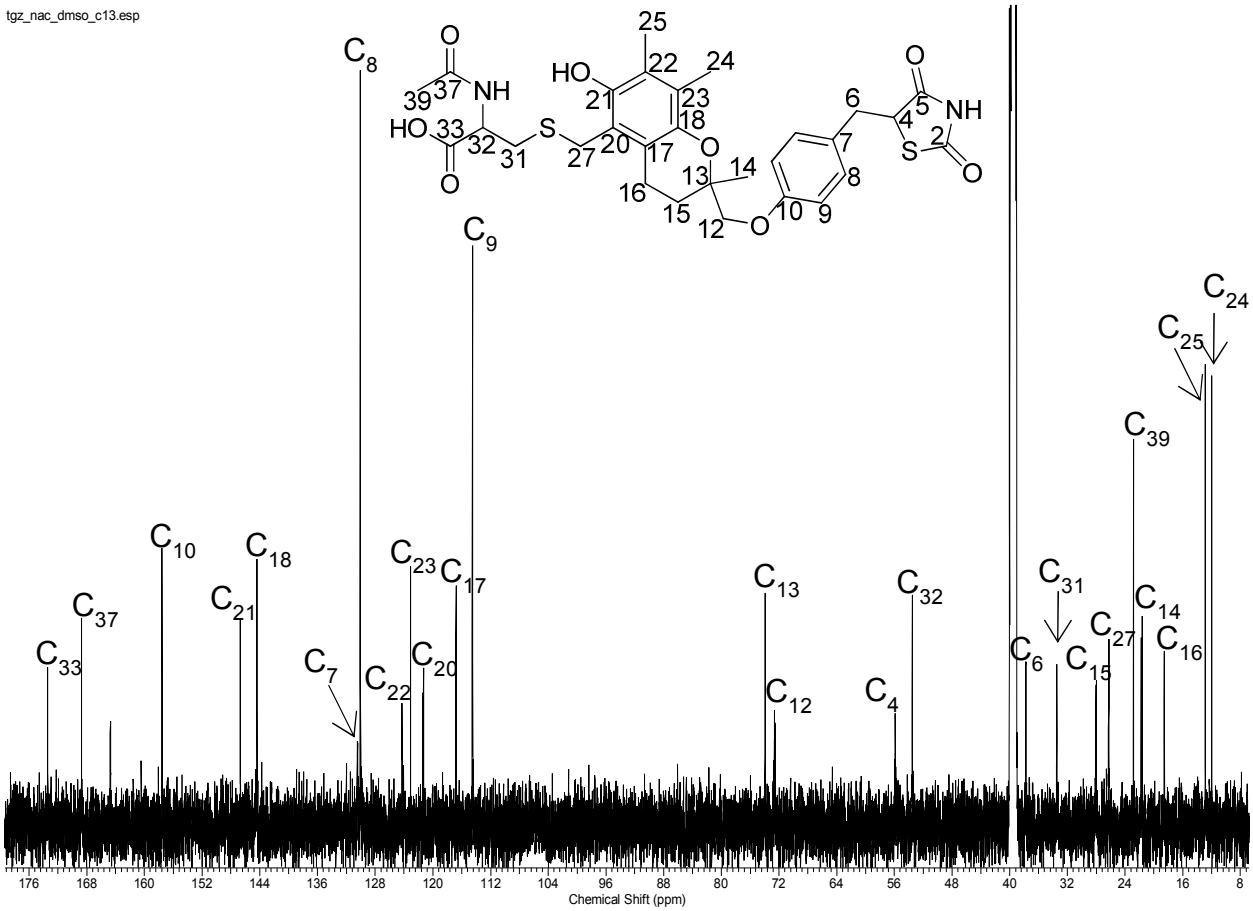

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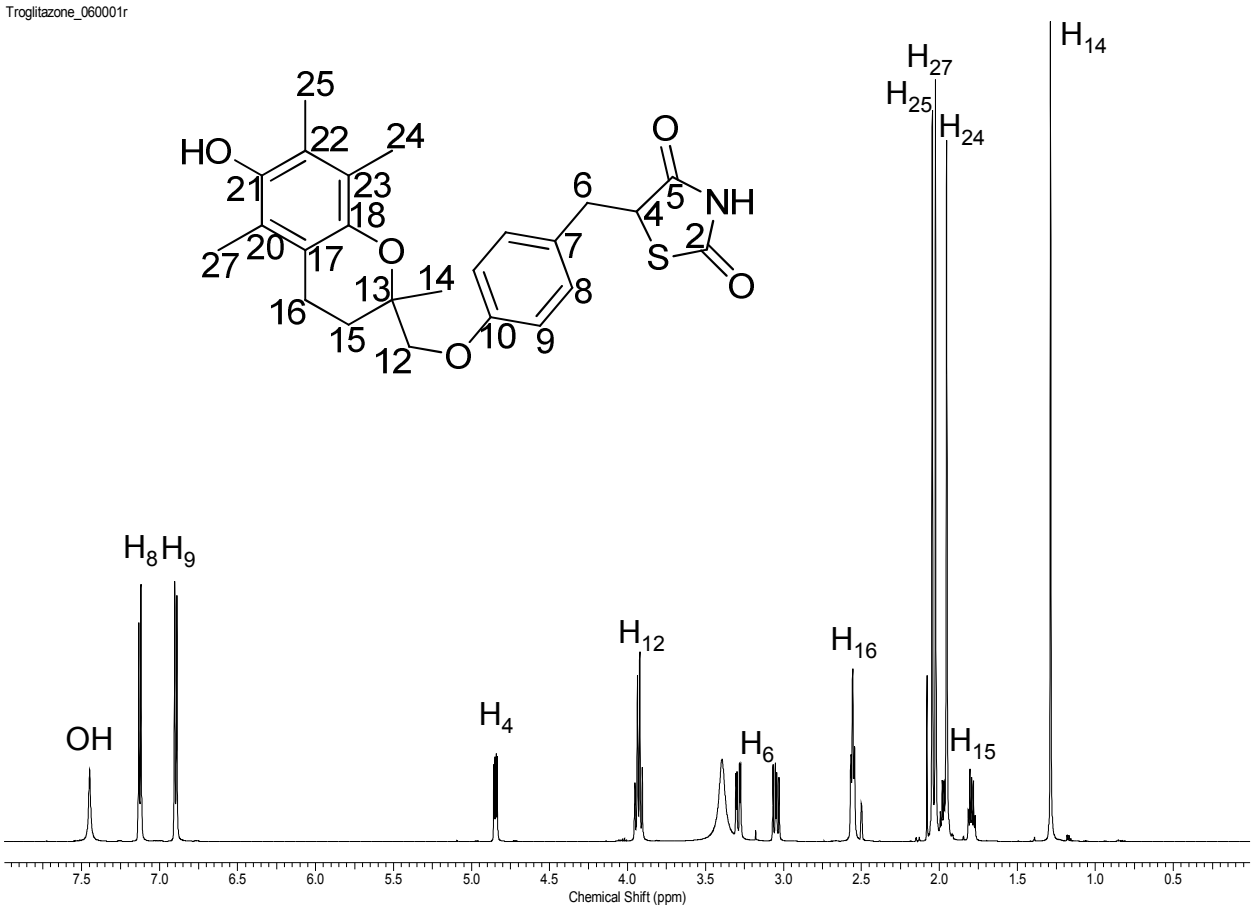

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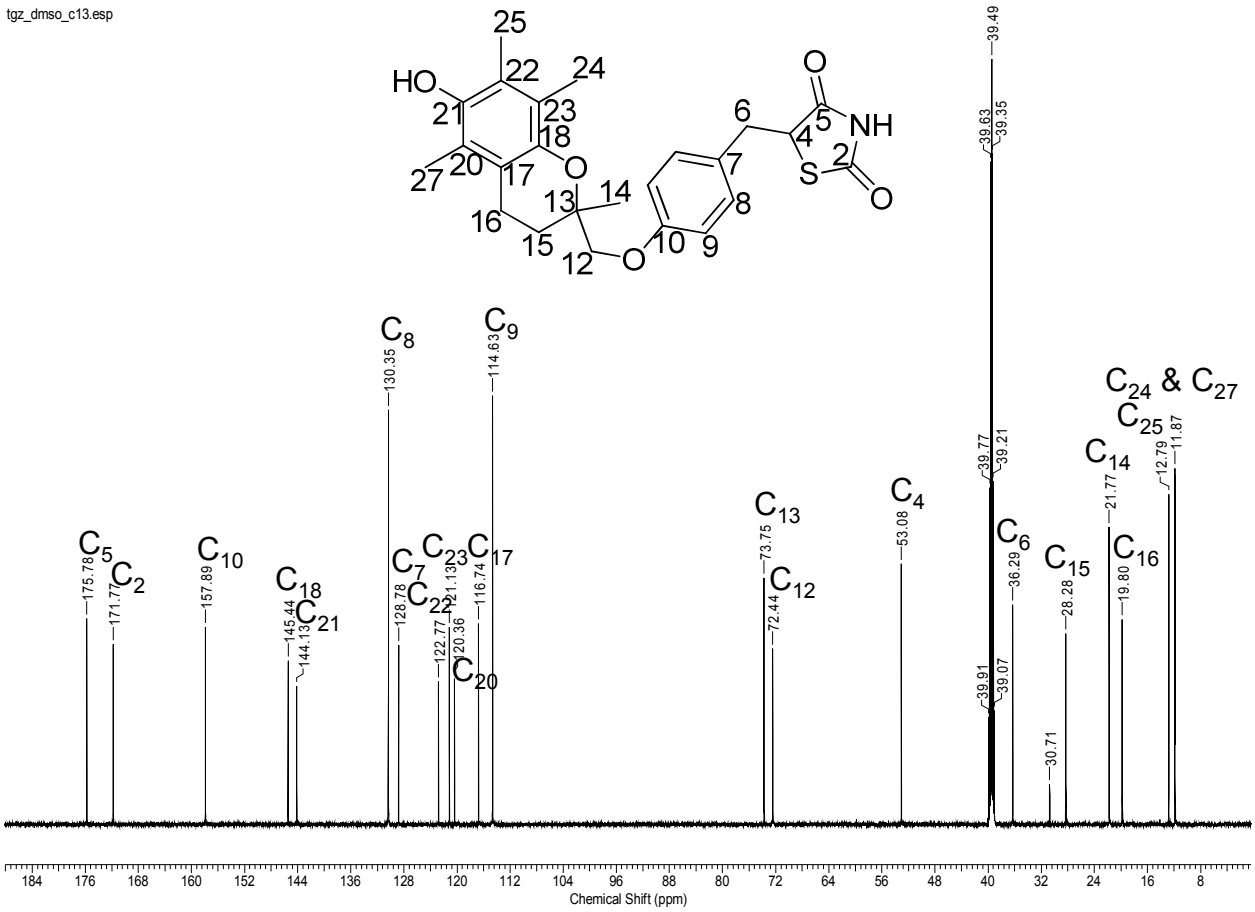

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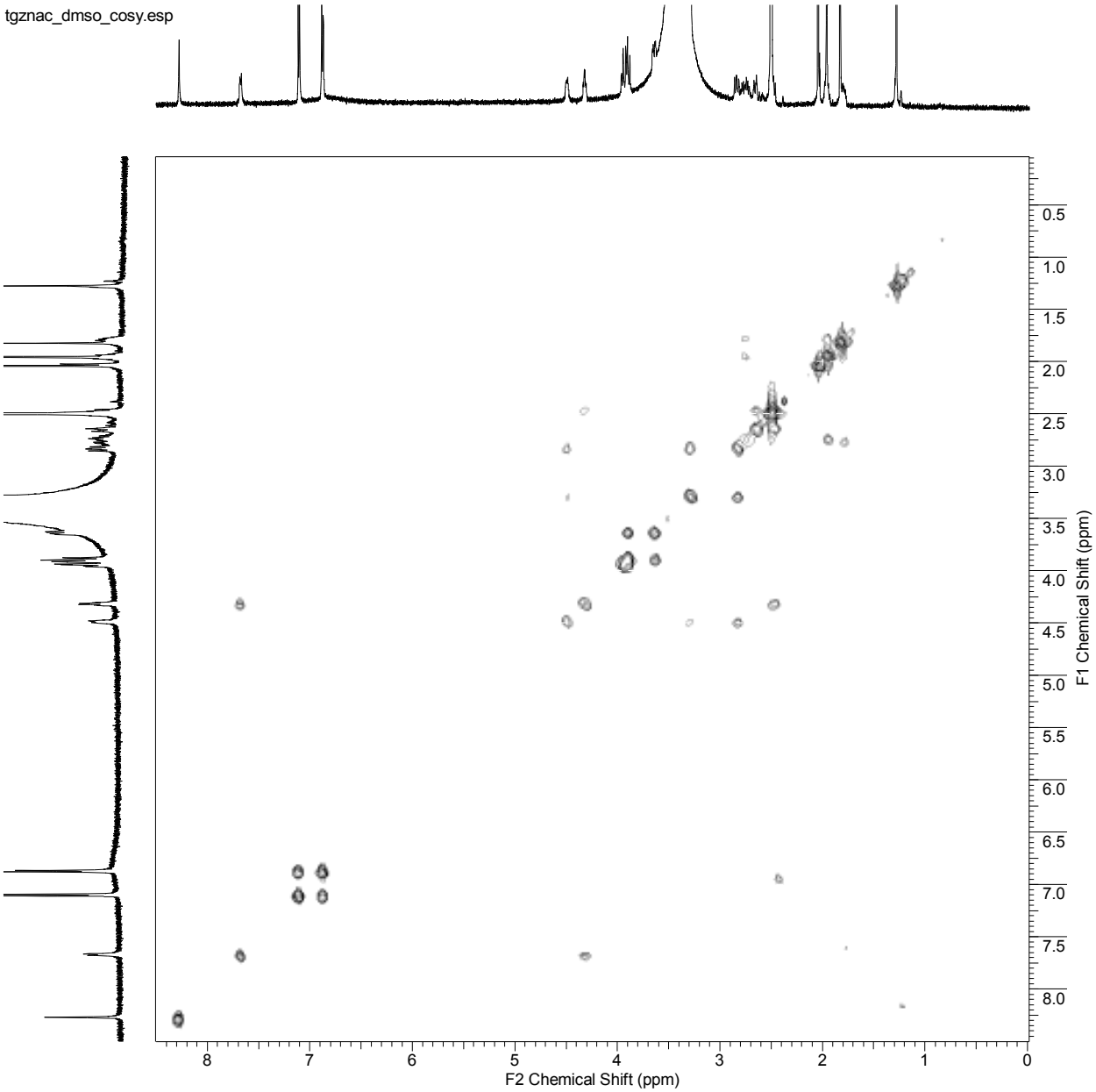

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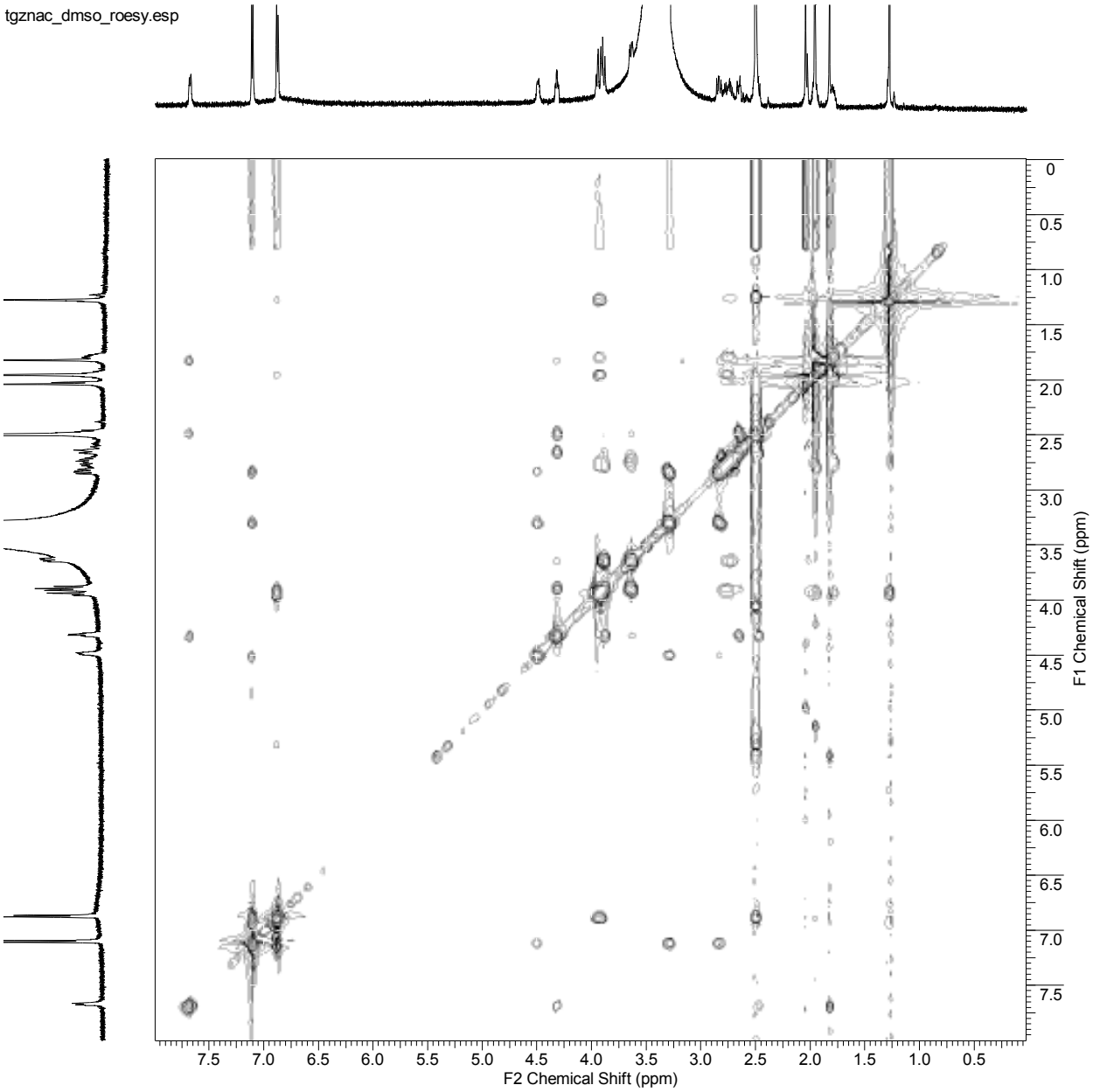

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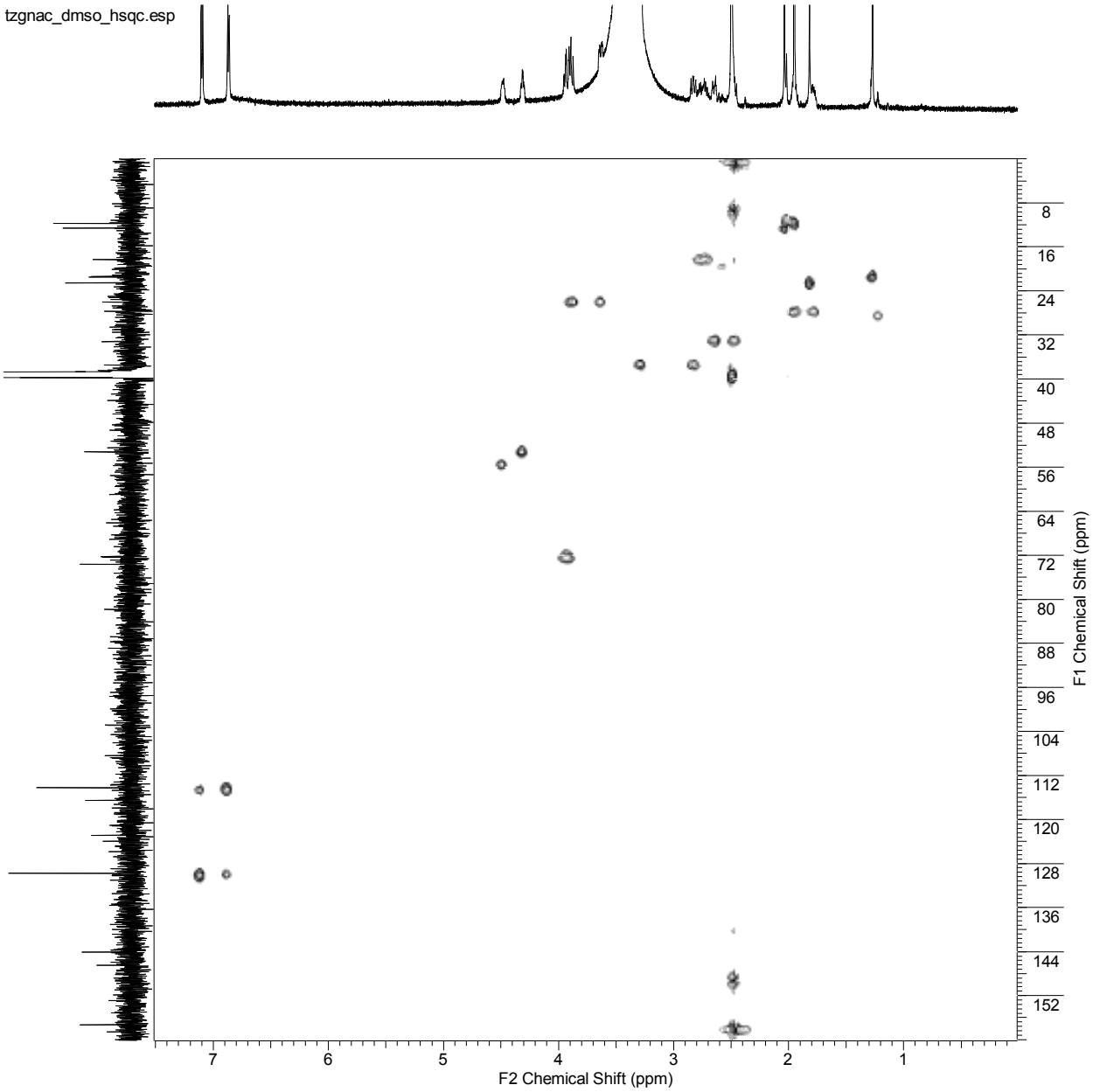

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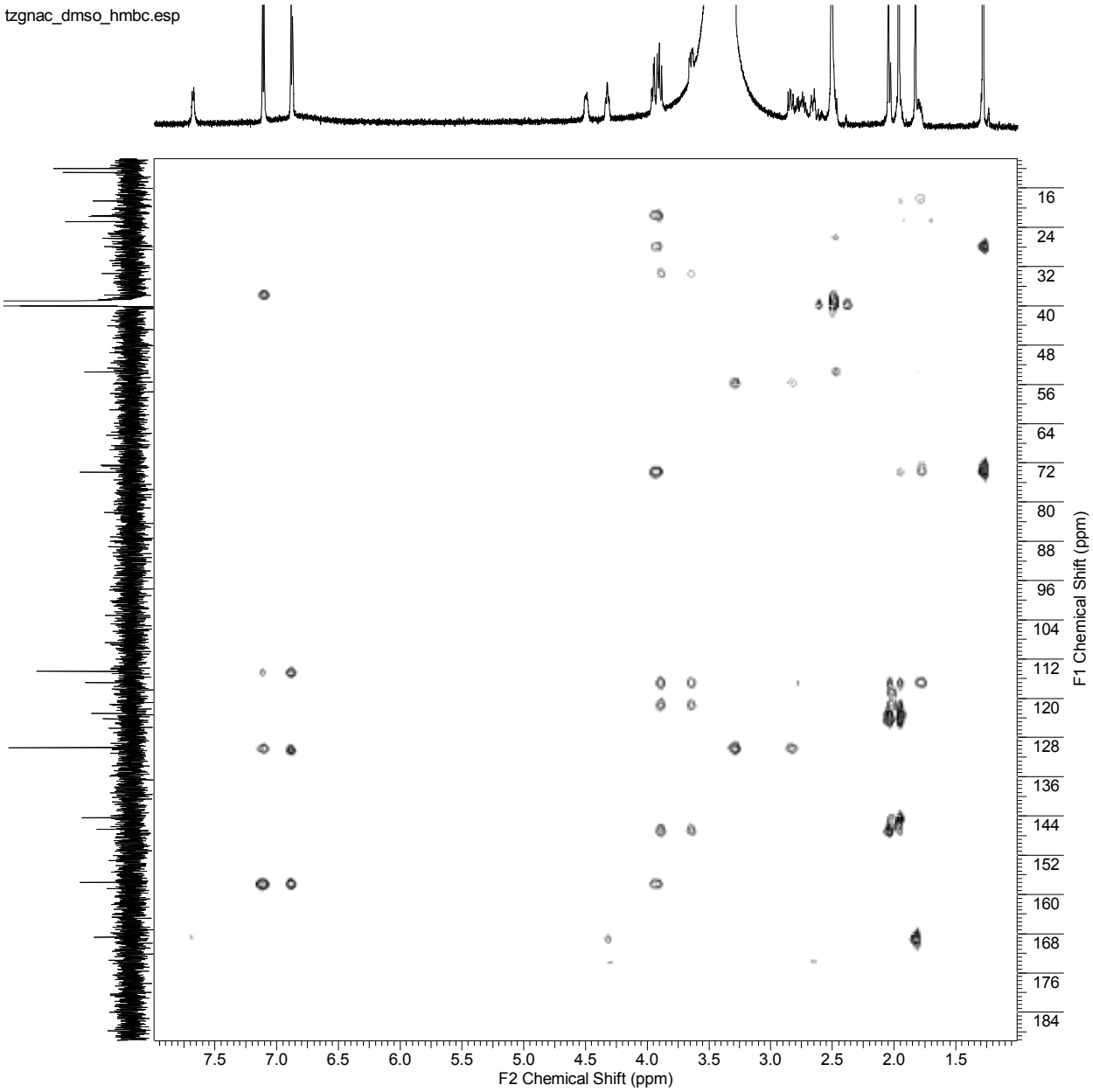

Supporting information 11