

Supplementary Material

Synthesis and characterization of new derivatives of (E)-N'-benzylidene-(2RS)-2-(6-chloro-9H-carbazol-2-yl)propanohydrazide as potential tuberculostatic agents

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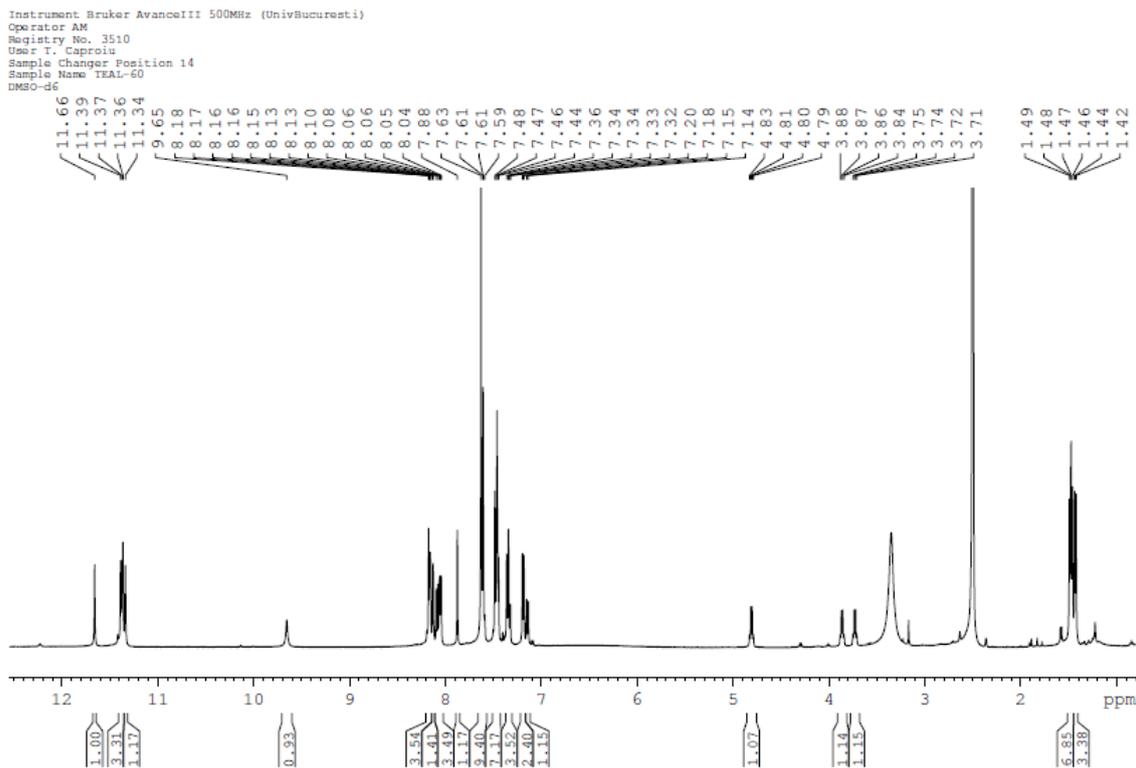


Figure S1: The ^1H -NMR spectra of *(EZ)*-*N'*-(4-bromobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1a)

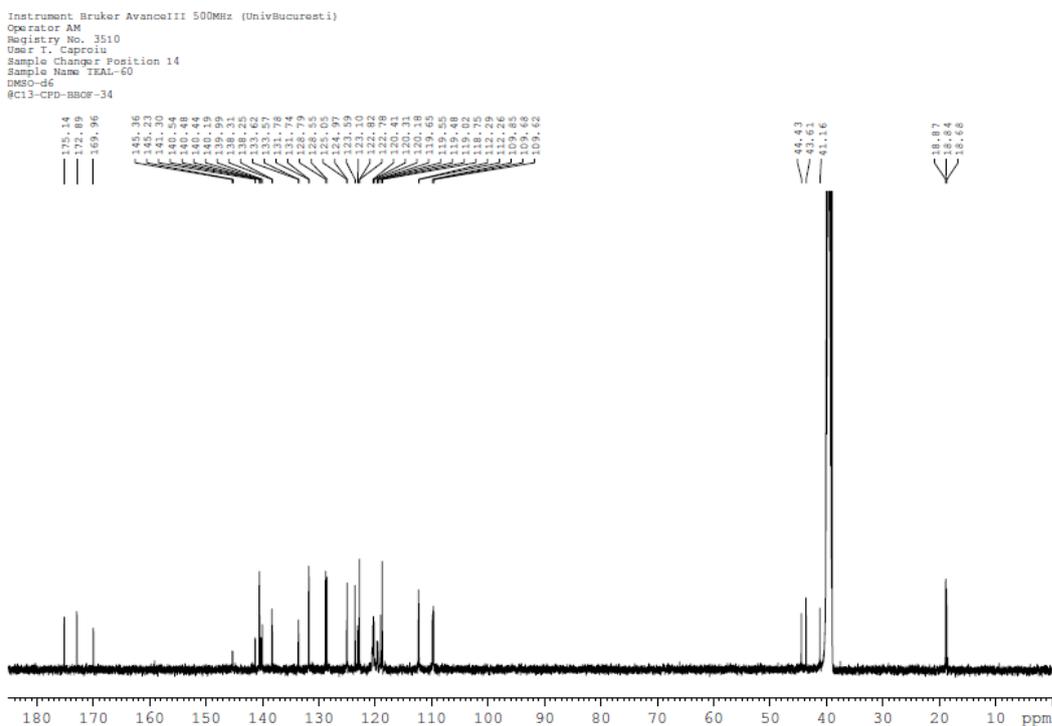


Figure S2: The ^{13}C -NMR spectra of *(EZ)*-*N'*-(4-bromobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1a)

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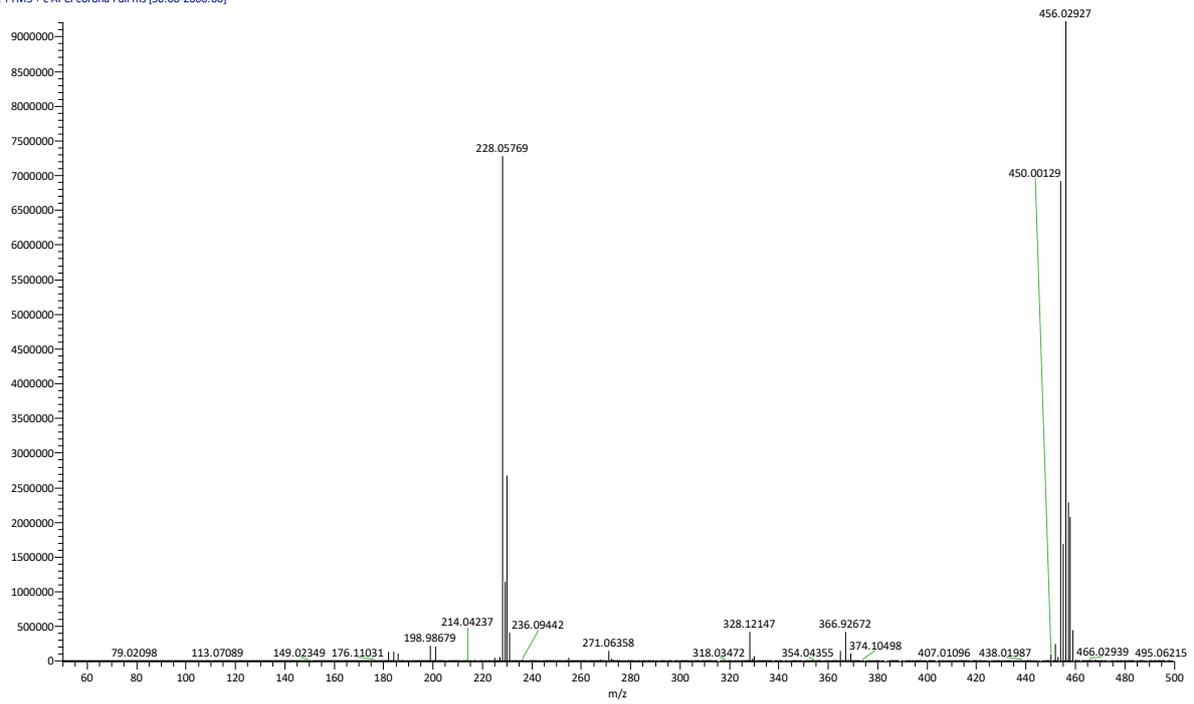


Figure S3: The APCI+ MS spectrum of **1a** in DMSO+MeOH

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DMSO+MeCN+CH2Cl2+MeOH

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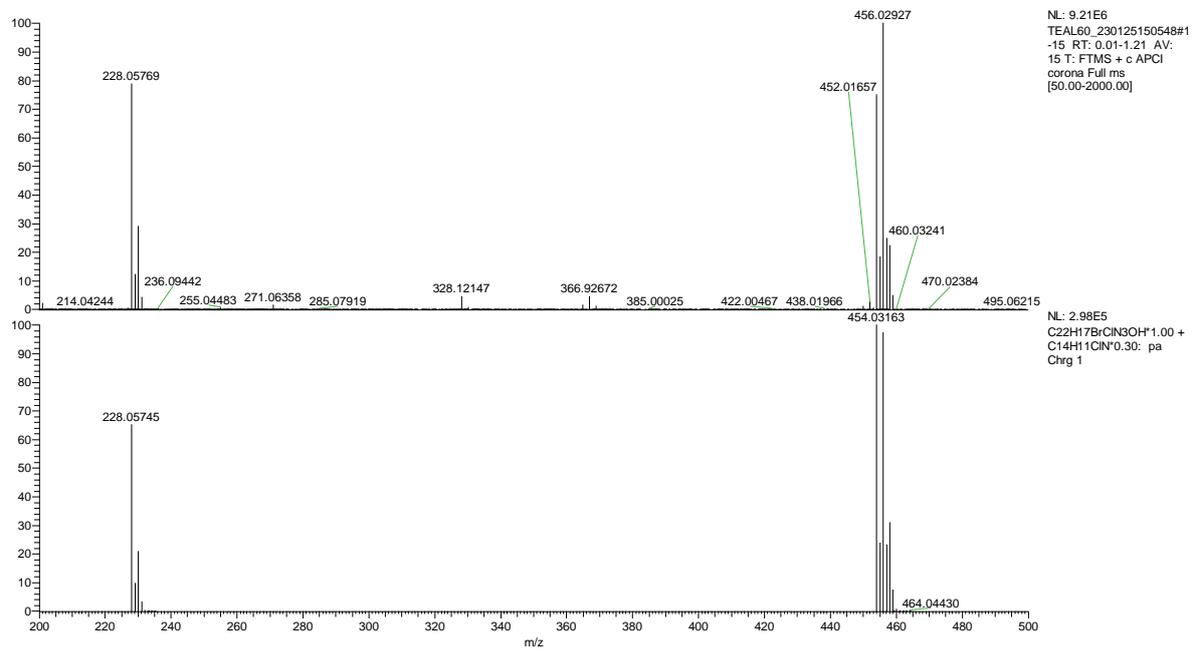


Figure S4: The experimental (up) and calculated (down) APCI+ MS spectra of **1a**

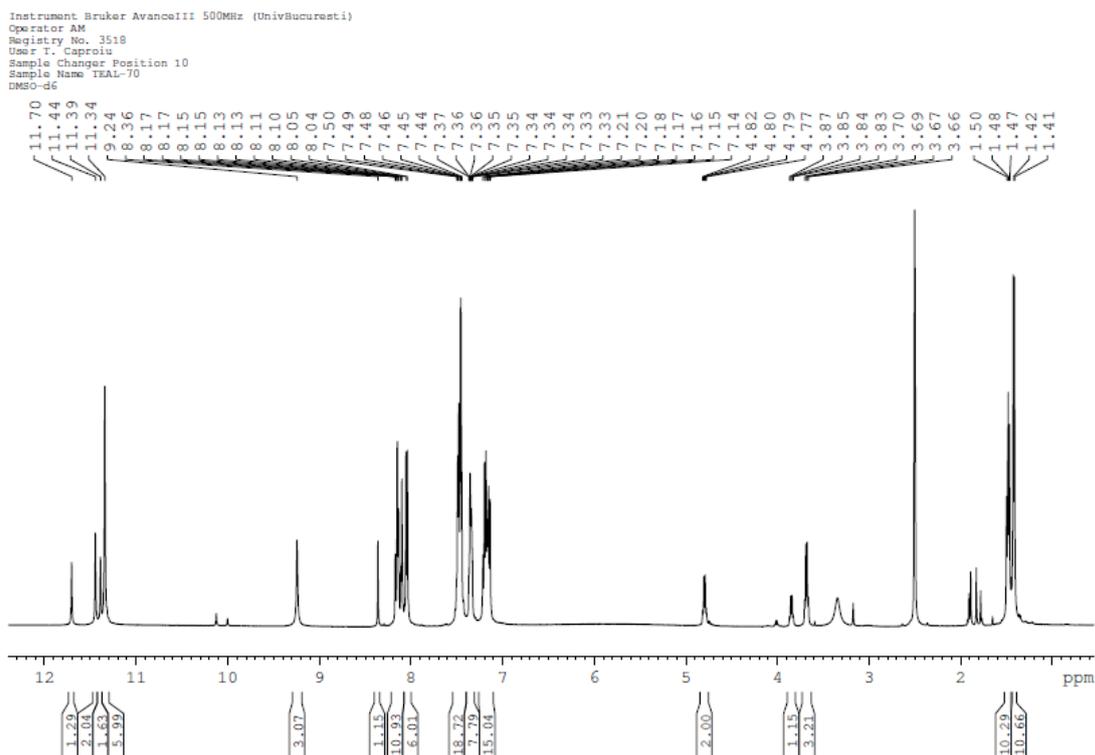


Figure S5: The ^1H -NMR spectra of *(EZ)*-*N'*-(2,6-difluorobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1b)

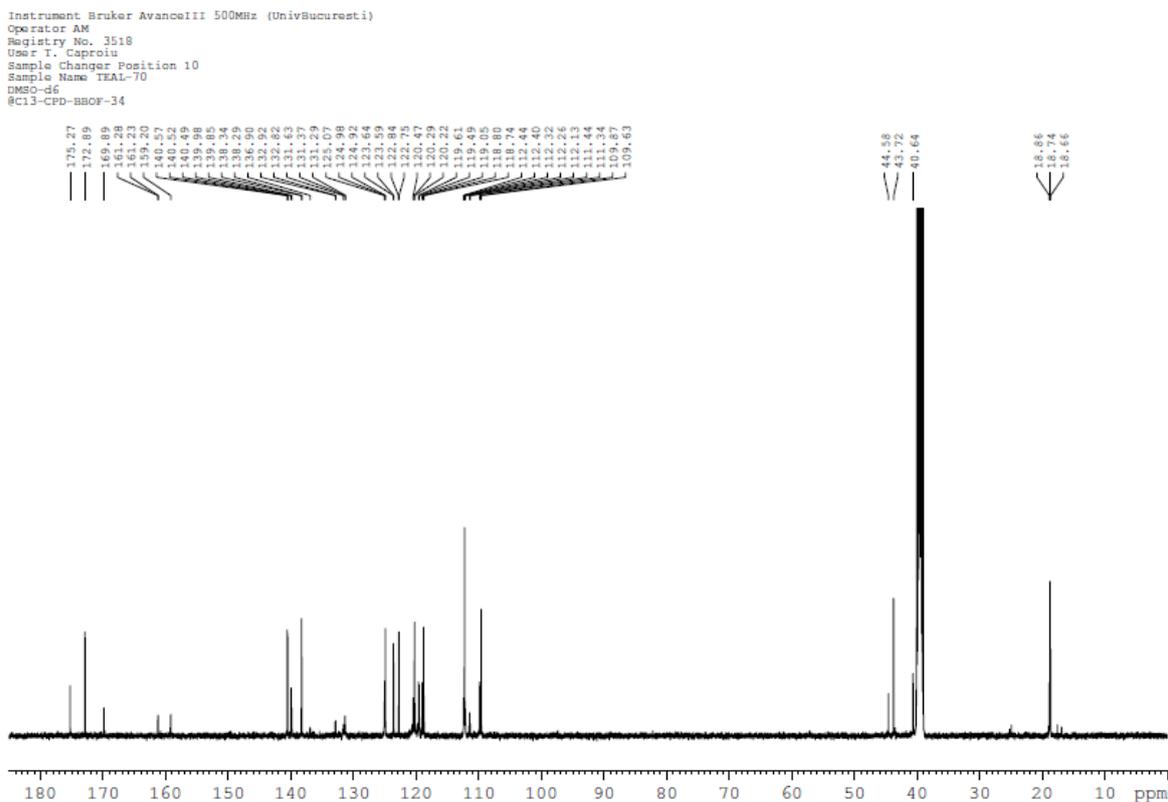


Figure S6: The ^{13}C -NMR spectra of *(EZ)*-*N'*-(2,6-difluorobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1b)

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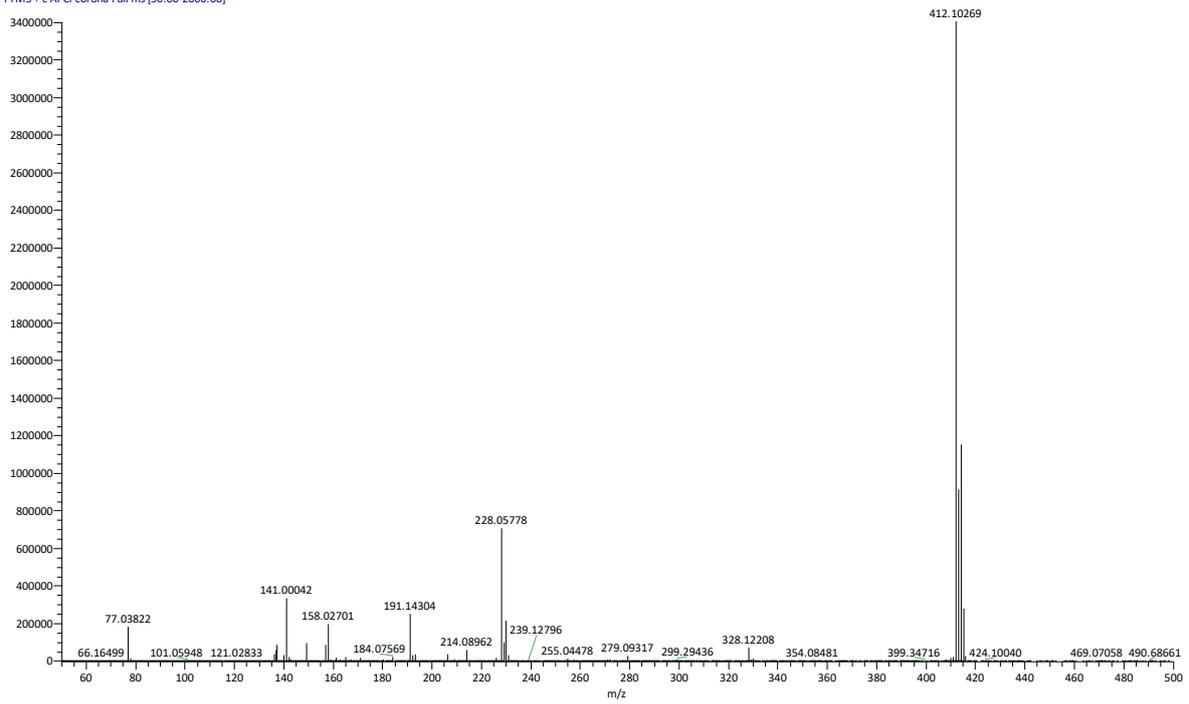


Figure S7: The APCI+ MS spectrum of **1b** in DMSO+MeOH

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DMSO+MeOH

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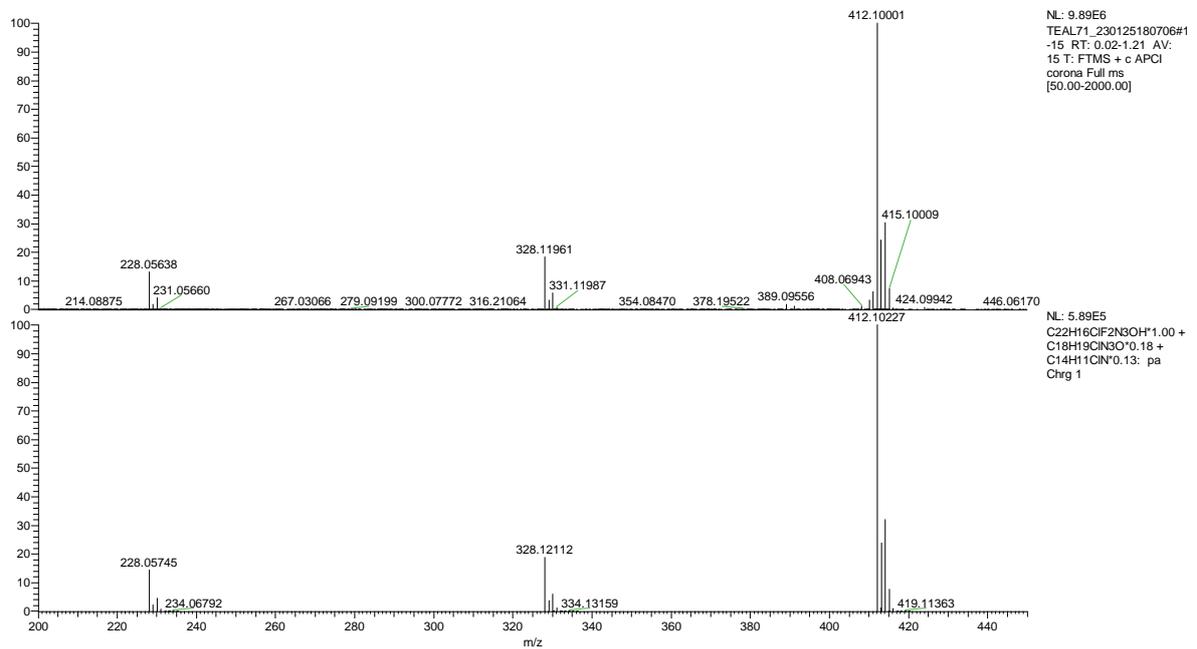


Figure S8: The experimental (up) and calculated (down) APCI+ MS spectra of **1b**

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Sample Name TEAL-71
DMSO-d6

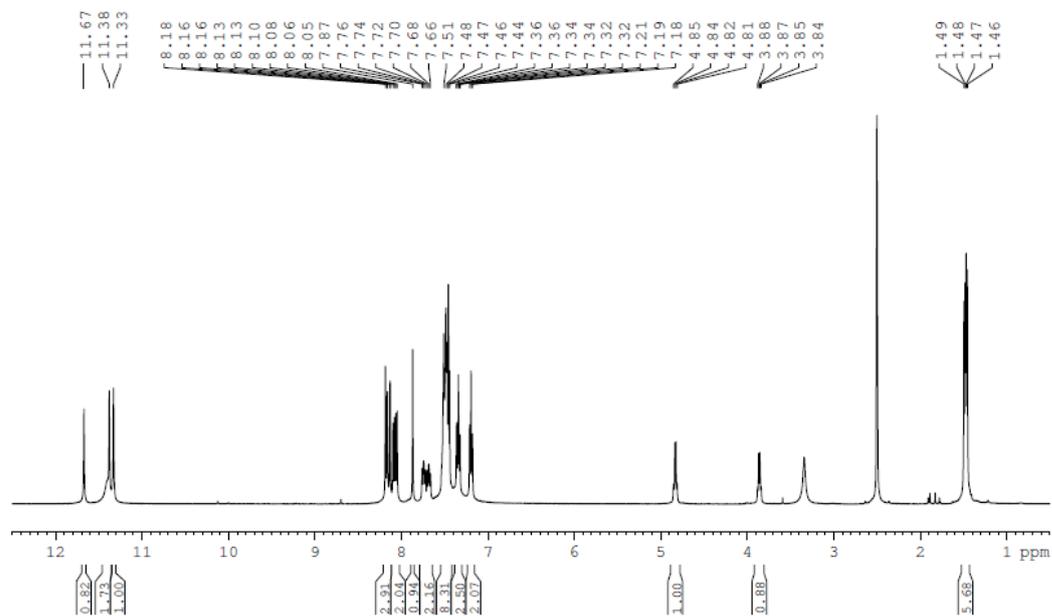


Figure S9: The ^1H -NMR spectra of *(EZ)*-*N'*-(3,4-difluorobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1c)

Instrument Bruker AvanceIII 500MHz (UnivBucuresti)
Operator AM
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User I. Caproiu
Sample Changer Position 11
Sample Name TEAL-71
DMSO-d6
#C13-CPD-BBOF-34

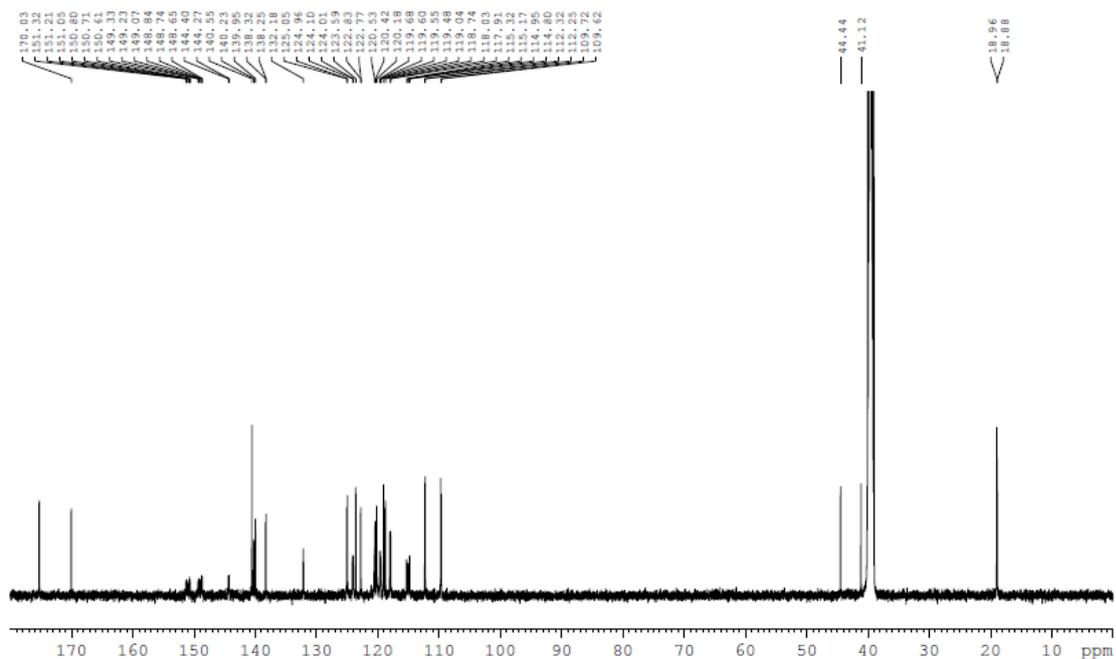


Figure S10: The ^{13}C -NMR spectra of *(EZ)*-*N'*-(3,4-difluorobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1c)

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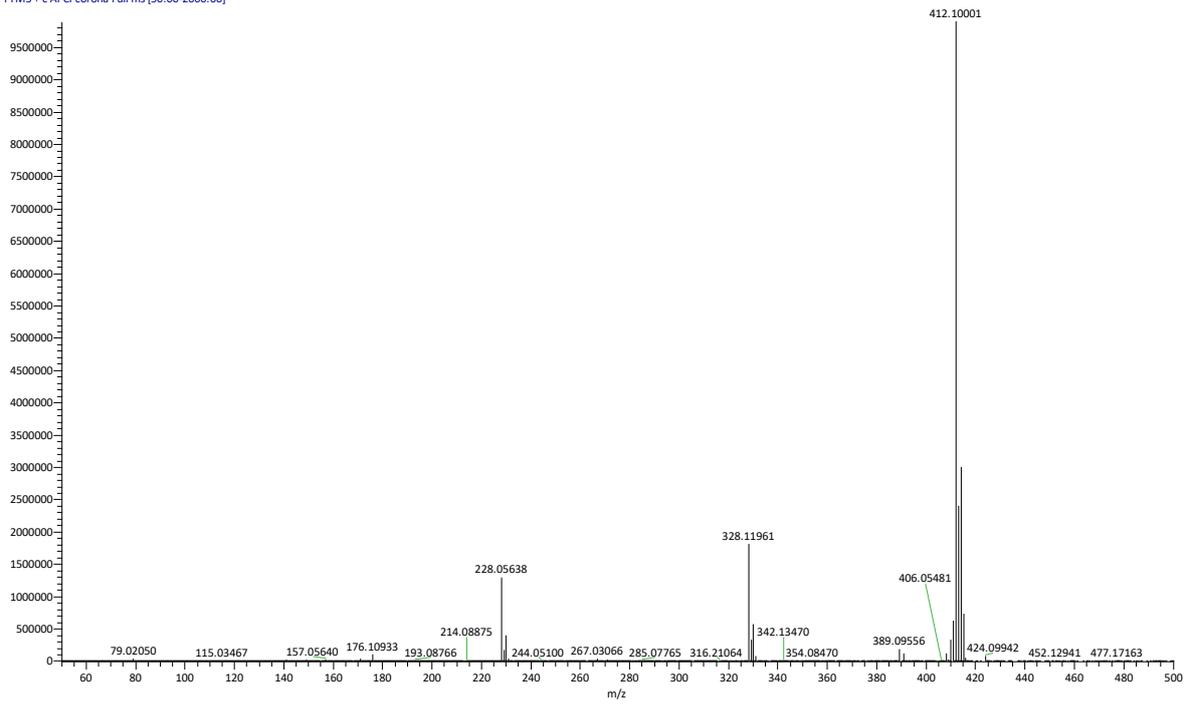


Figure S11: The APCI+ MS spectrum of **1c** in DMSO+MeOH

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DMSO+MeOH

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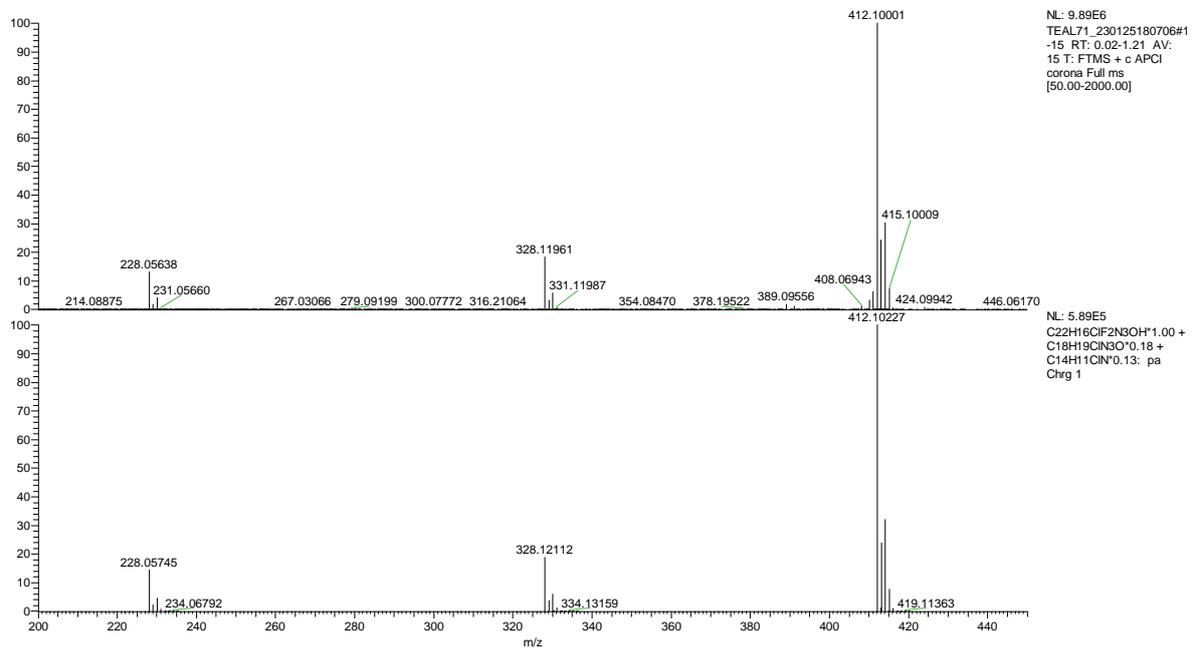


Figure S12: The experimental (up) and calculated (down) APCI+ MS spectra of **1c**

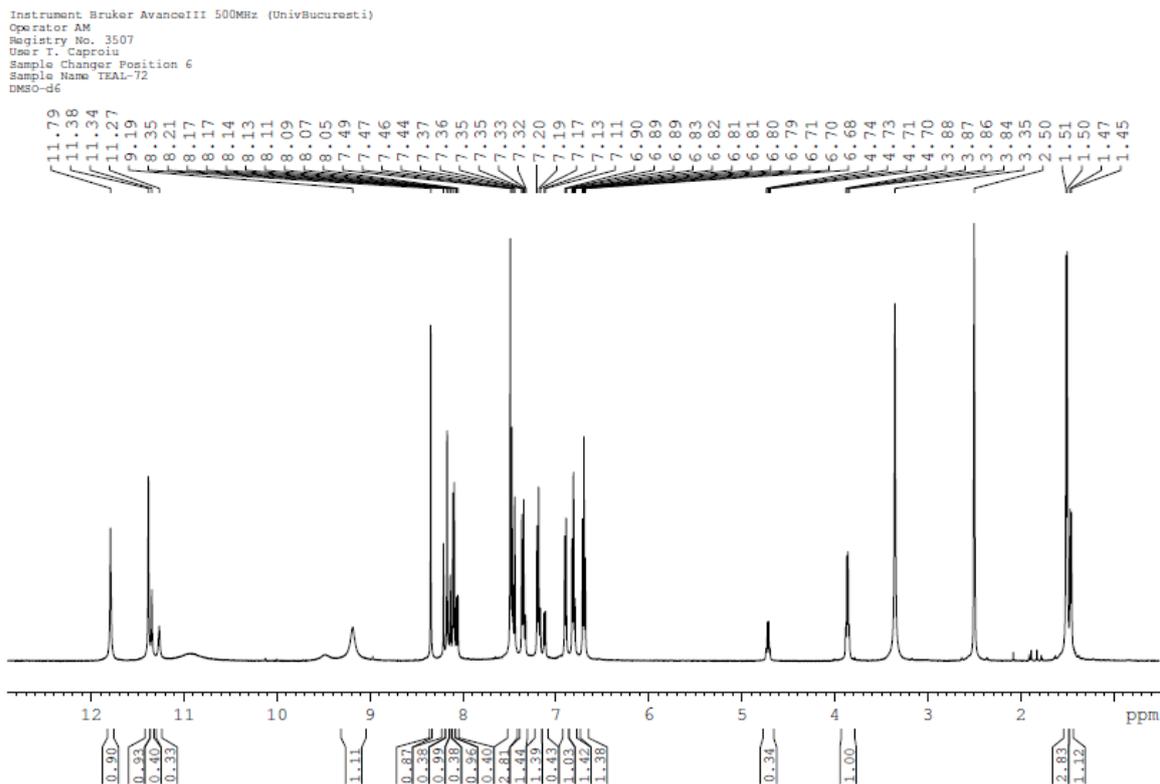


Figure S13: The ^1H -NMR spectra of *(EZ)*-*N'*-(2,3-dihydroxybenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl) propanehydrazide (1d)

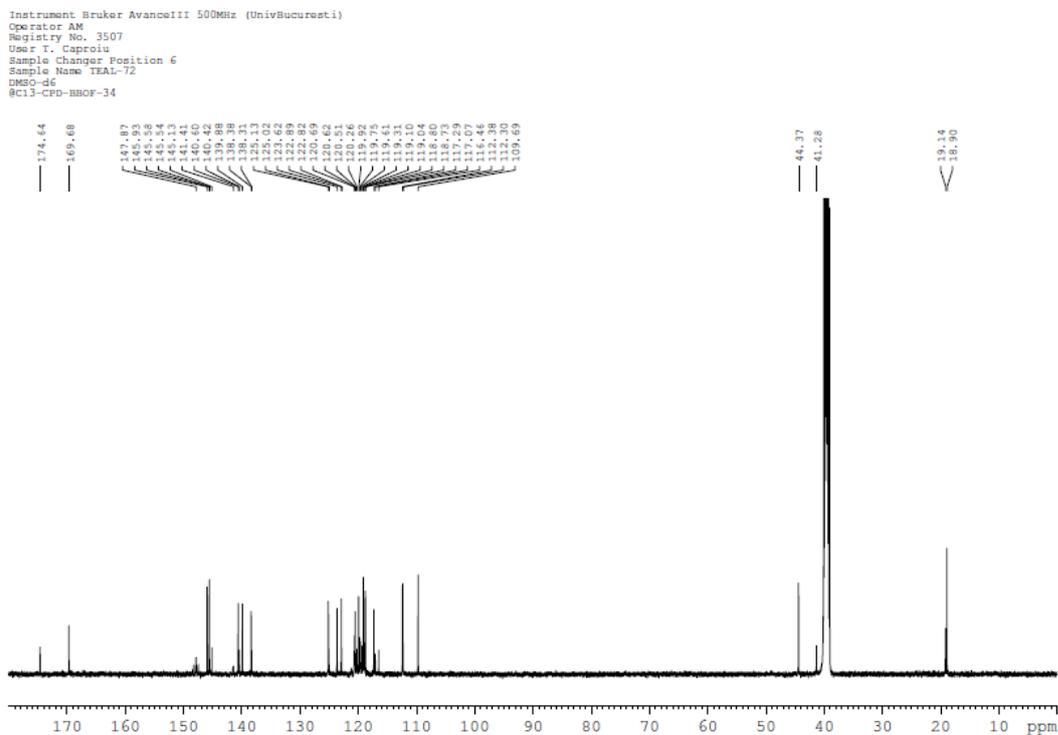


Figure S14: The ^{13}C -NMR spectra of *(EZ)*-*N'*-(2,3-dihydroxybenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl) propanehydrazide (1d)

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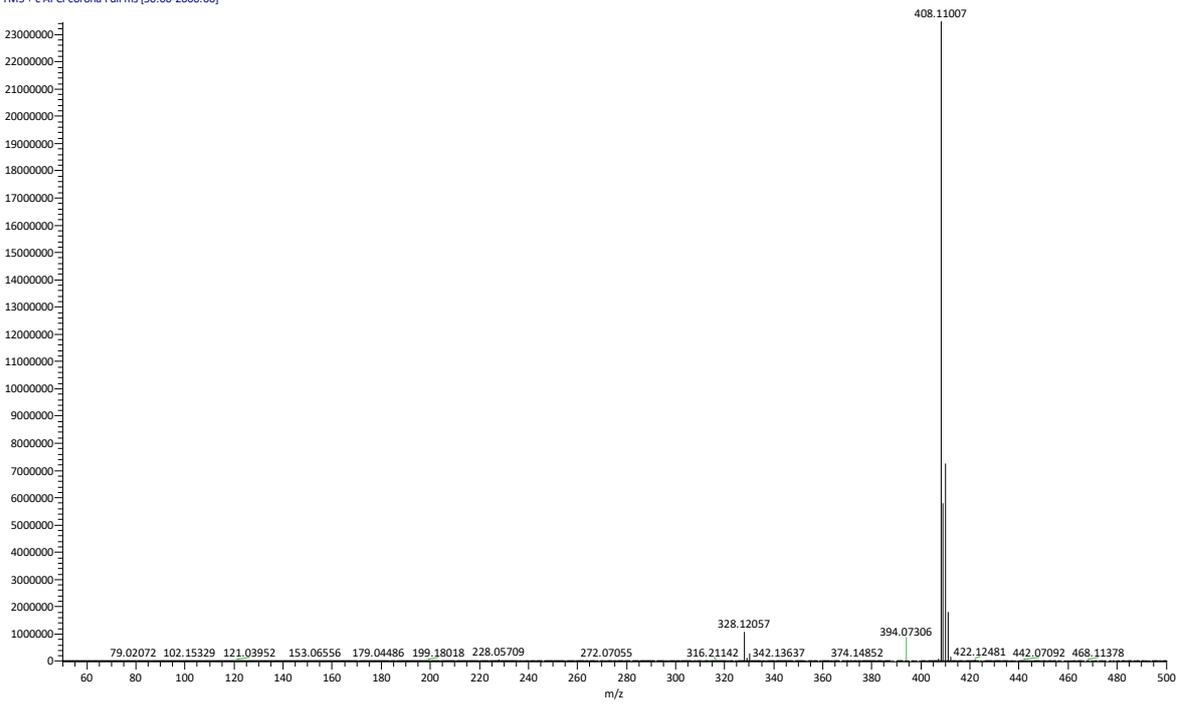


Figure S15: The APCI+ MS spectrum of **1d** in DMSO+MeOH

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DMSO+MeOH

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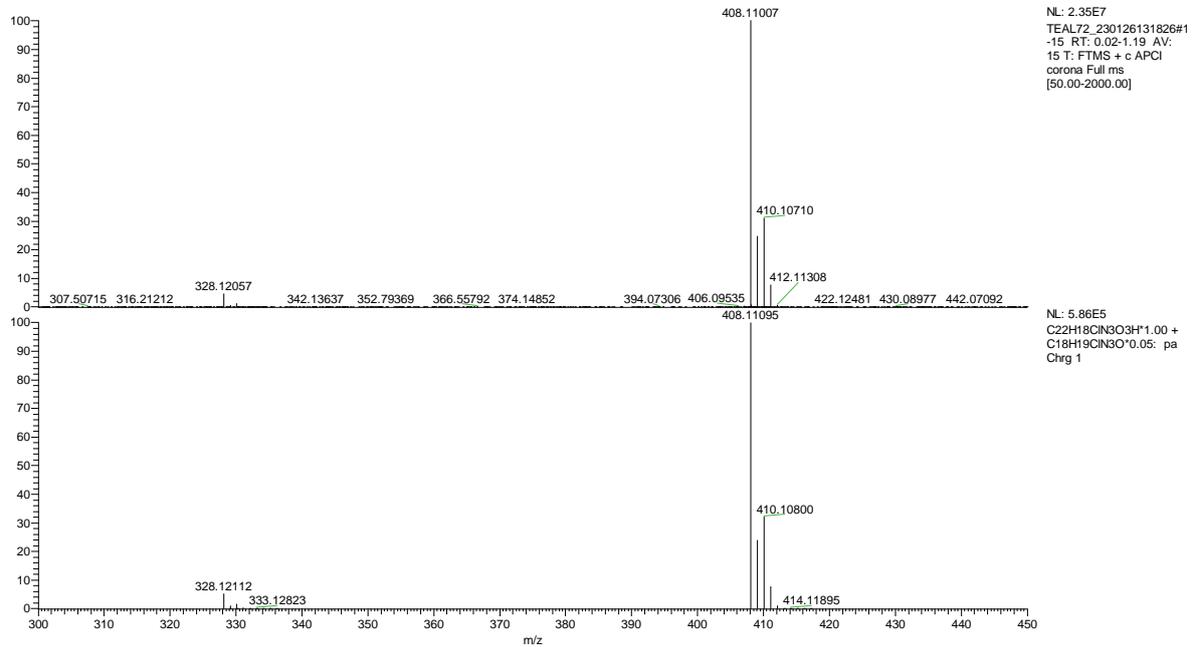


Figure S16: The experimental (up) and calculated (down) APCI+ MS spectra of **1d**

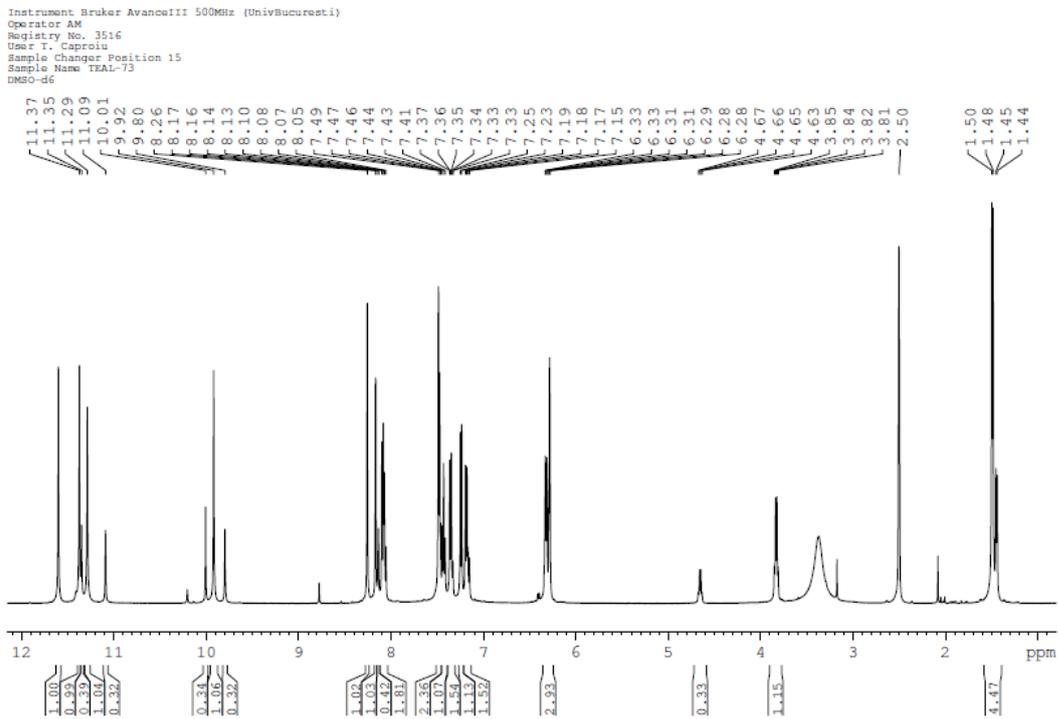


Figure S17: The ^1H -NMR spectra of *(EZ)*-*N'*-(2,4-dihydroxybenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane)hydrazide (**1e**)

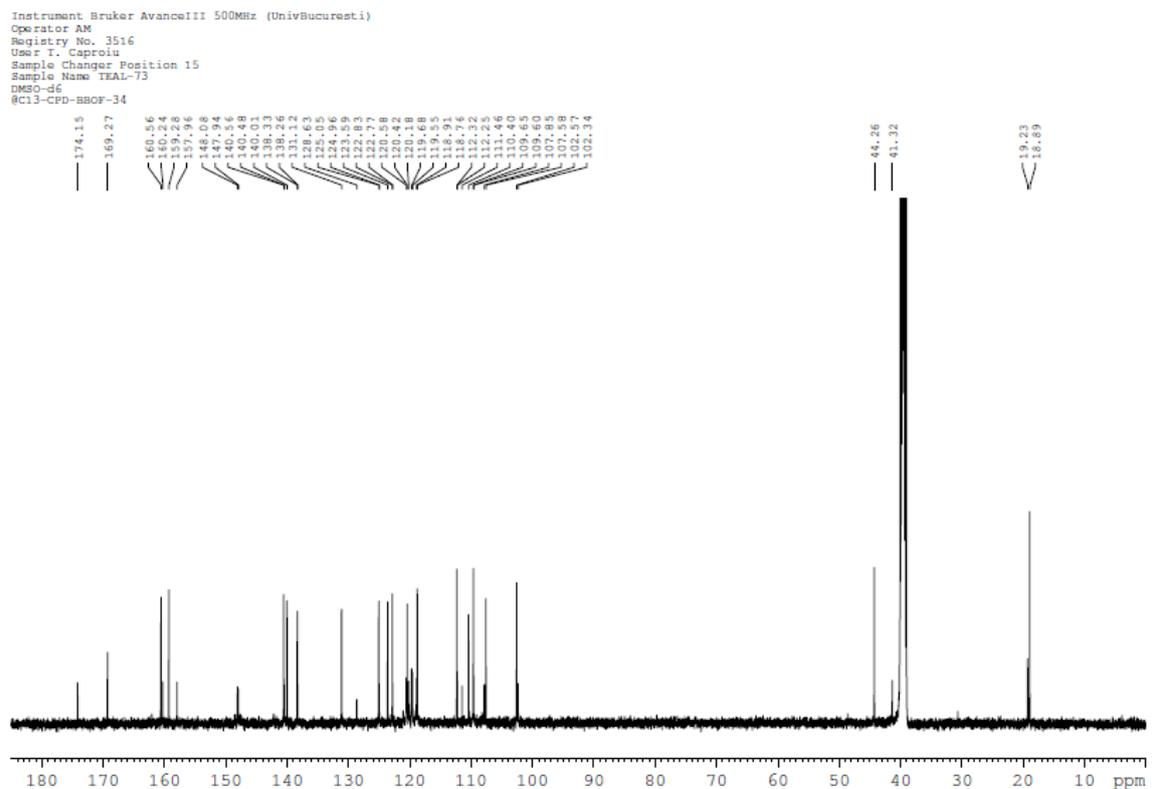


Figure S18: The ^{13}C -NMR spectra of *(EZ)*-*N'*-(2,4-dihydroxybenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane)hydrazide (**1e**)

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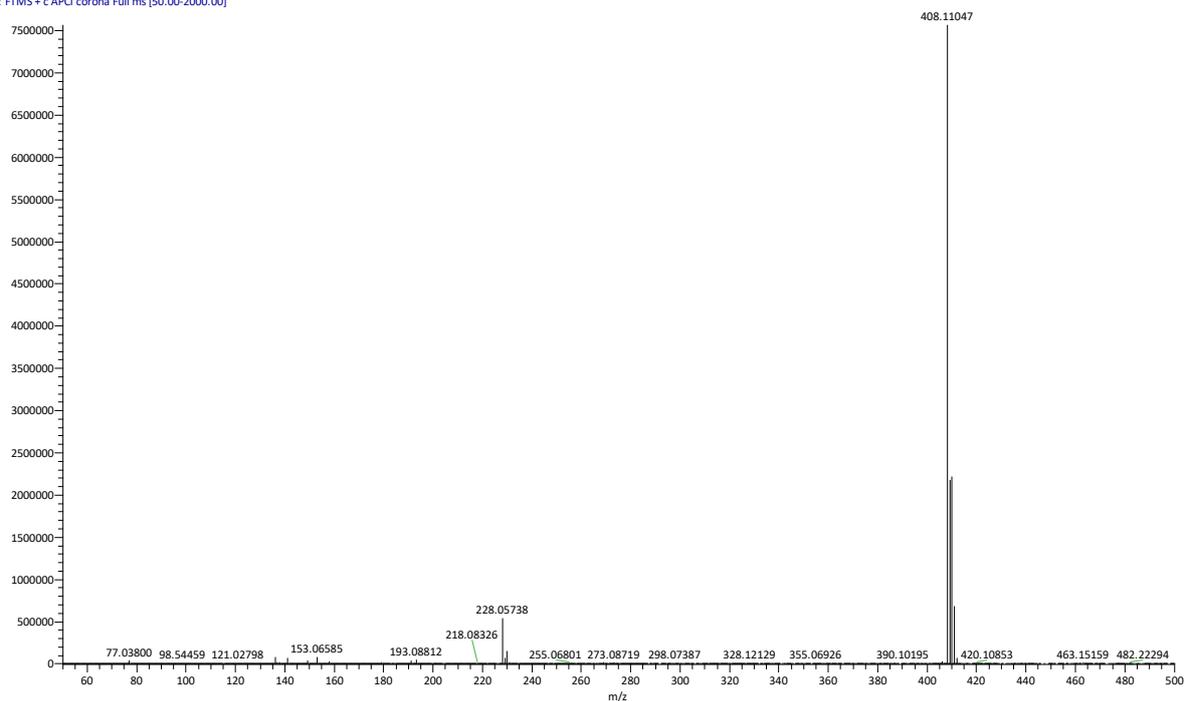


Figure S19: The APCI+ MS spectrum of **1e** in DMSO+MeOH

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DMSO+MeOH

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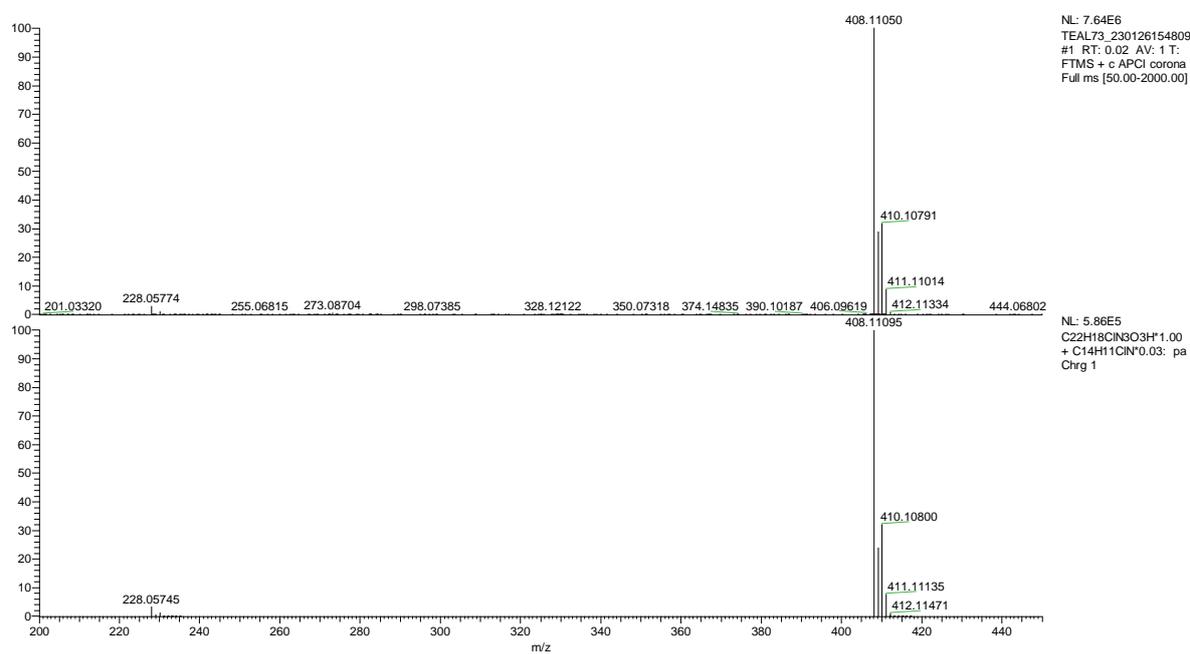


Figure S20: The experimental (up) and calculated (down) APCI+ MS spectra of **1e**

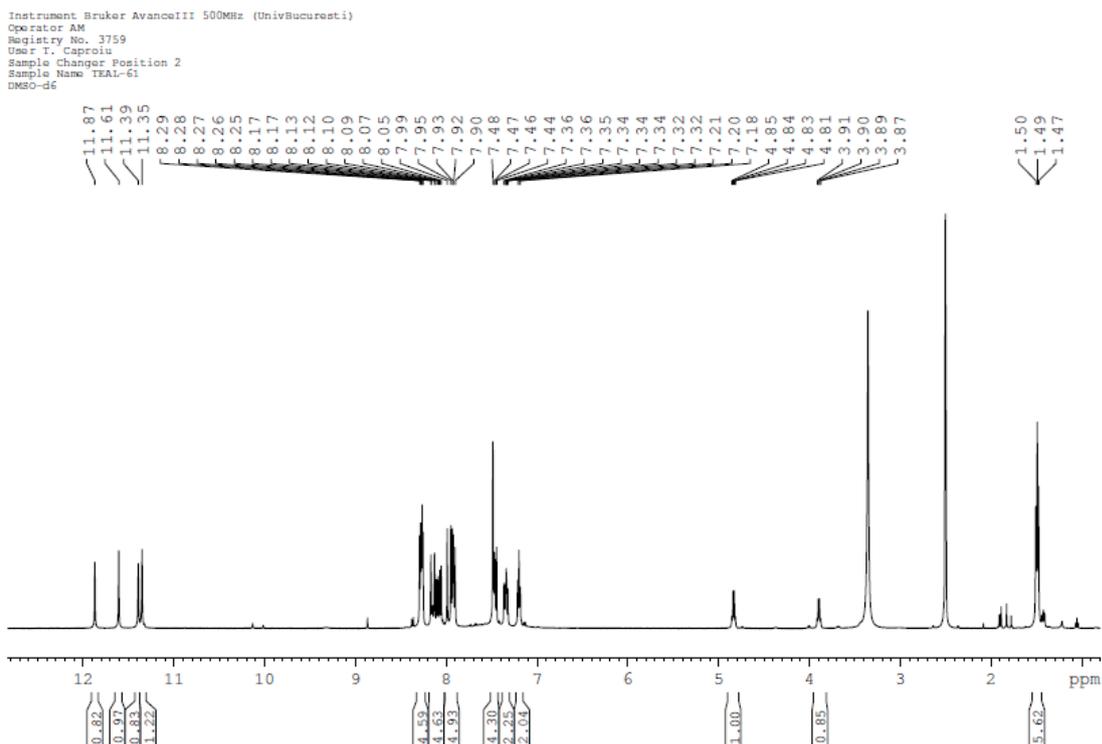


Figure S21: The ¹H-NMR spectra of *EZ*-N'-(4-nitrobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1f)

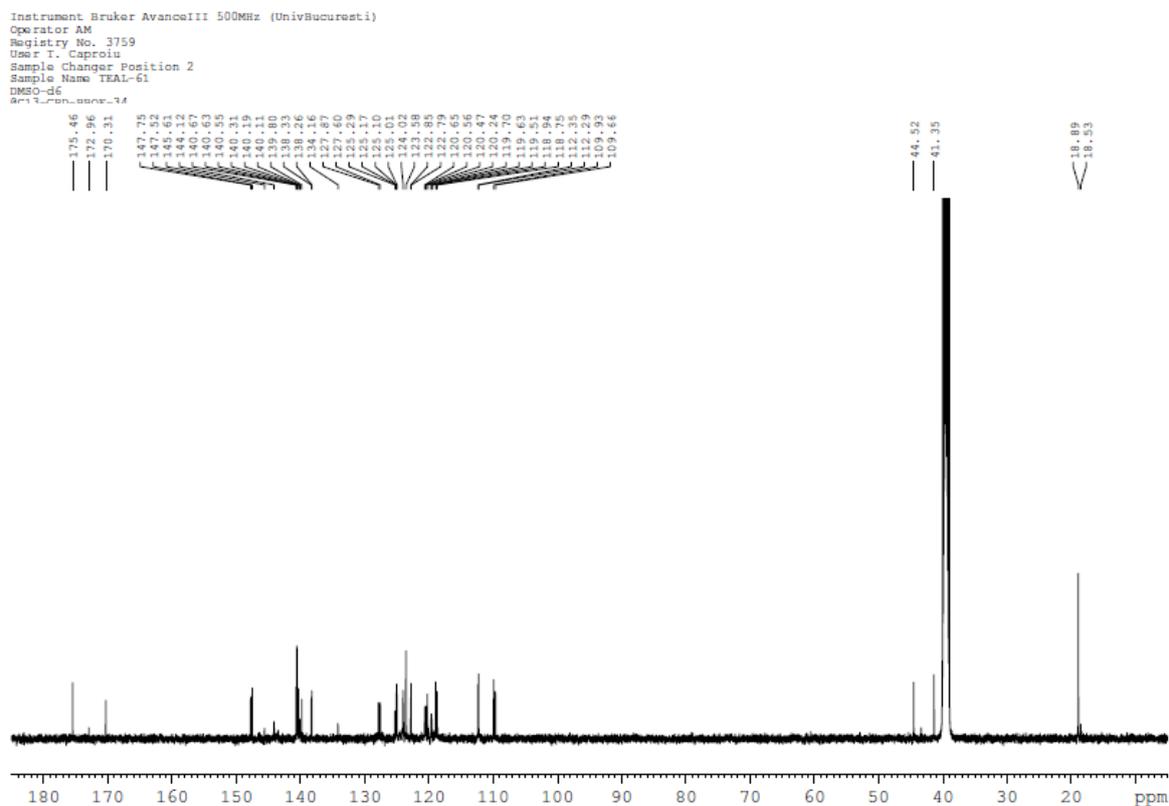


Figure S22: The ¹³C-NMR spectra of *EZ*-N'-(4-nitrobenzylidene-(2*RS*)-2-(6-chloro-9*H*-carbazol-2-yl)propane hydrazide (1f)

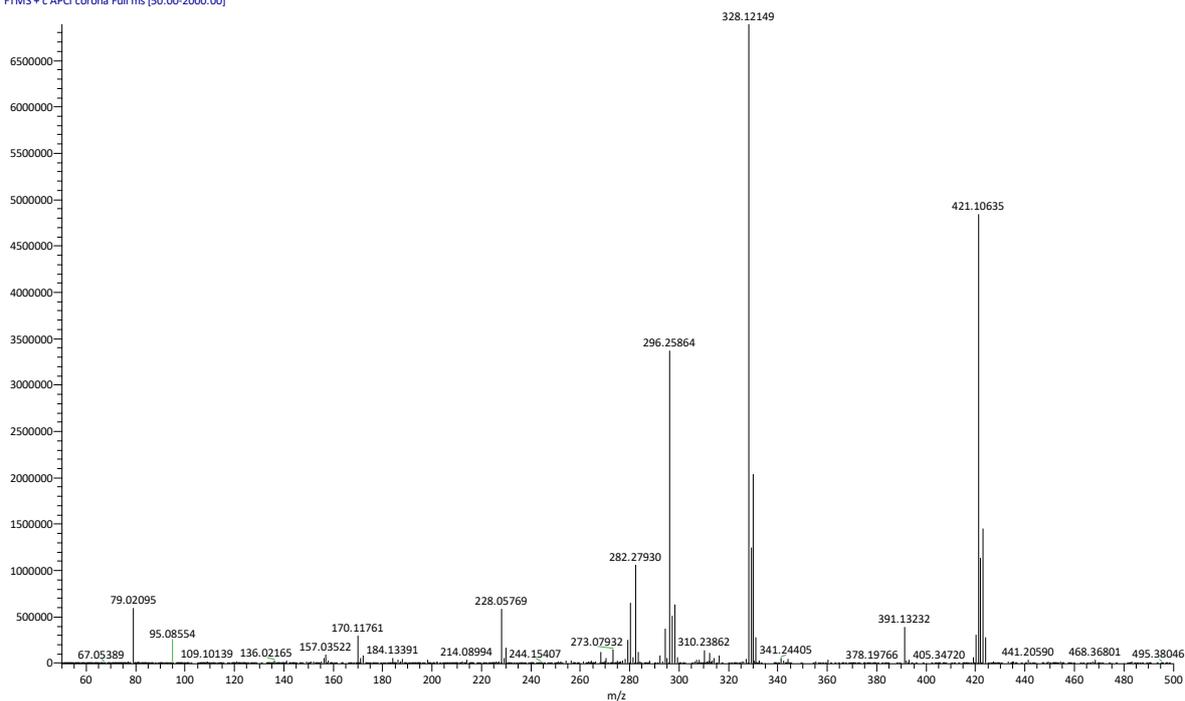


Figure S23: The APCI+ MS spectrum of **1f** in DMSO+MeOH

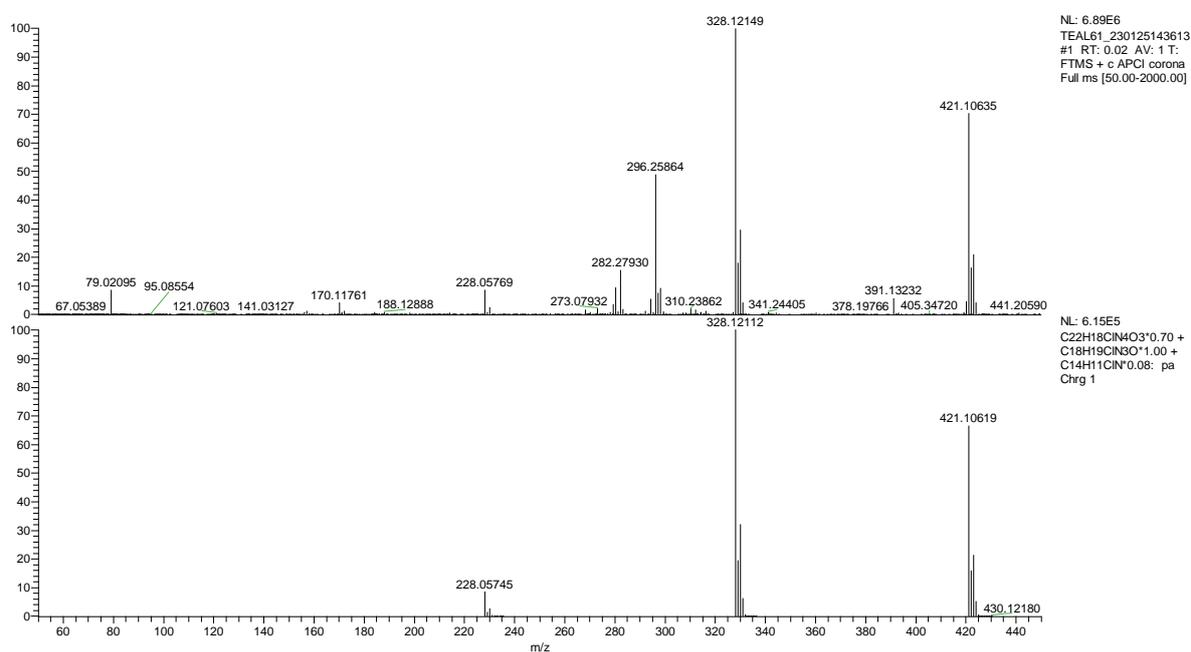


Figure S24: The experimental (up) and calculated (down) APCI+ MS spectra of **1f**