

Supplementary Data:

New Insights into the Structural Requirements of Isatin-derived Pro-apoptotic Agents against Acute Myeloid Leukemia

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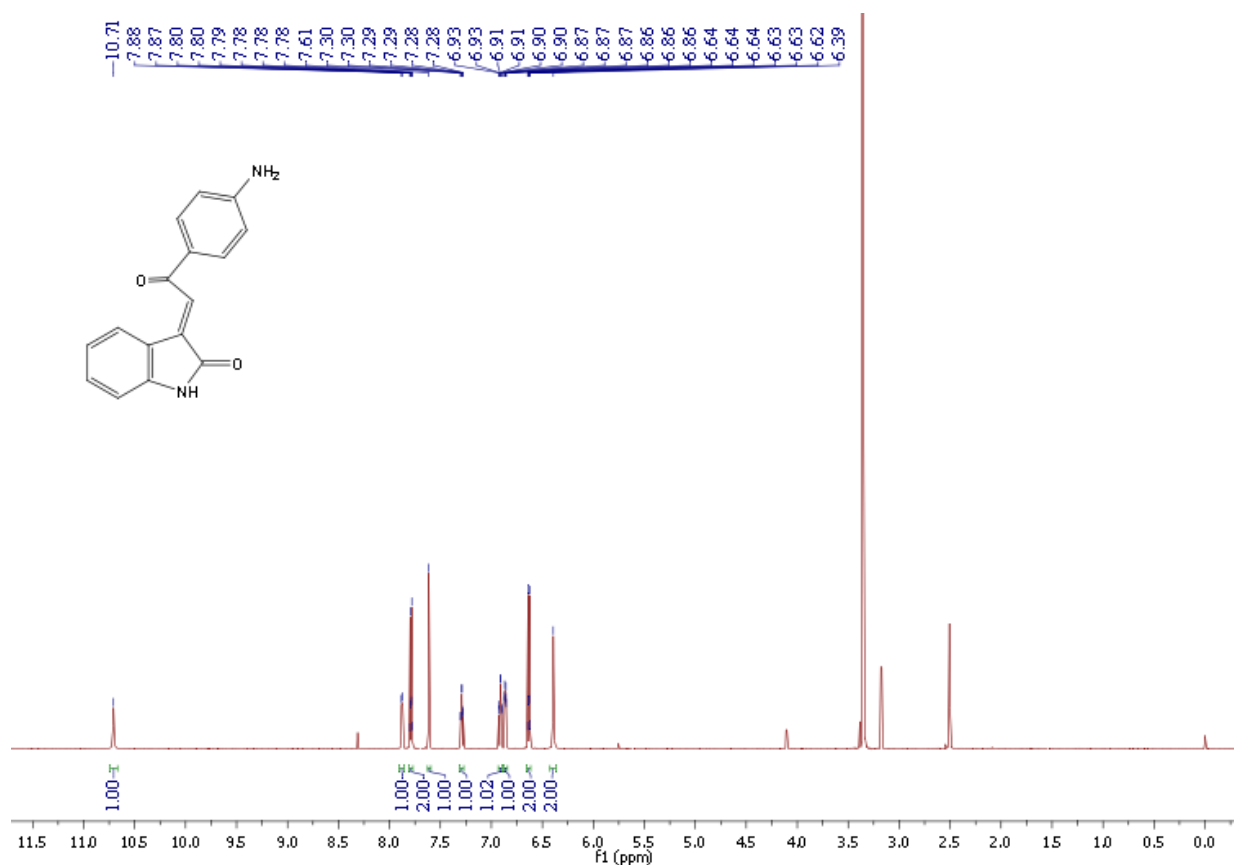


Figure S1: ¹H-NMR spectrum of compound 3 (600 MHz, DMSO-d₆)

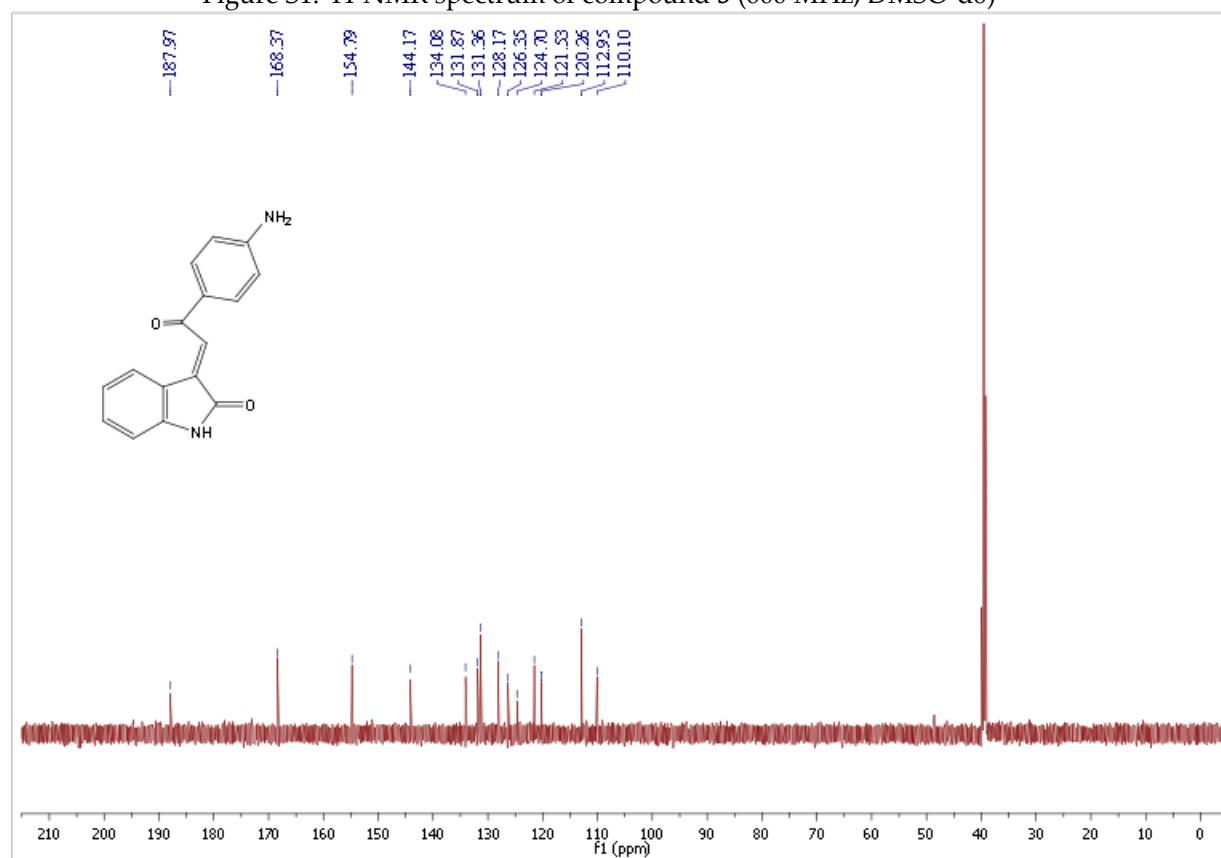


Figure S2: ¹³C-NMR spectrum of compound 3 (150 MHz, DMSO-d₆)

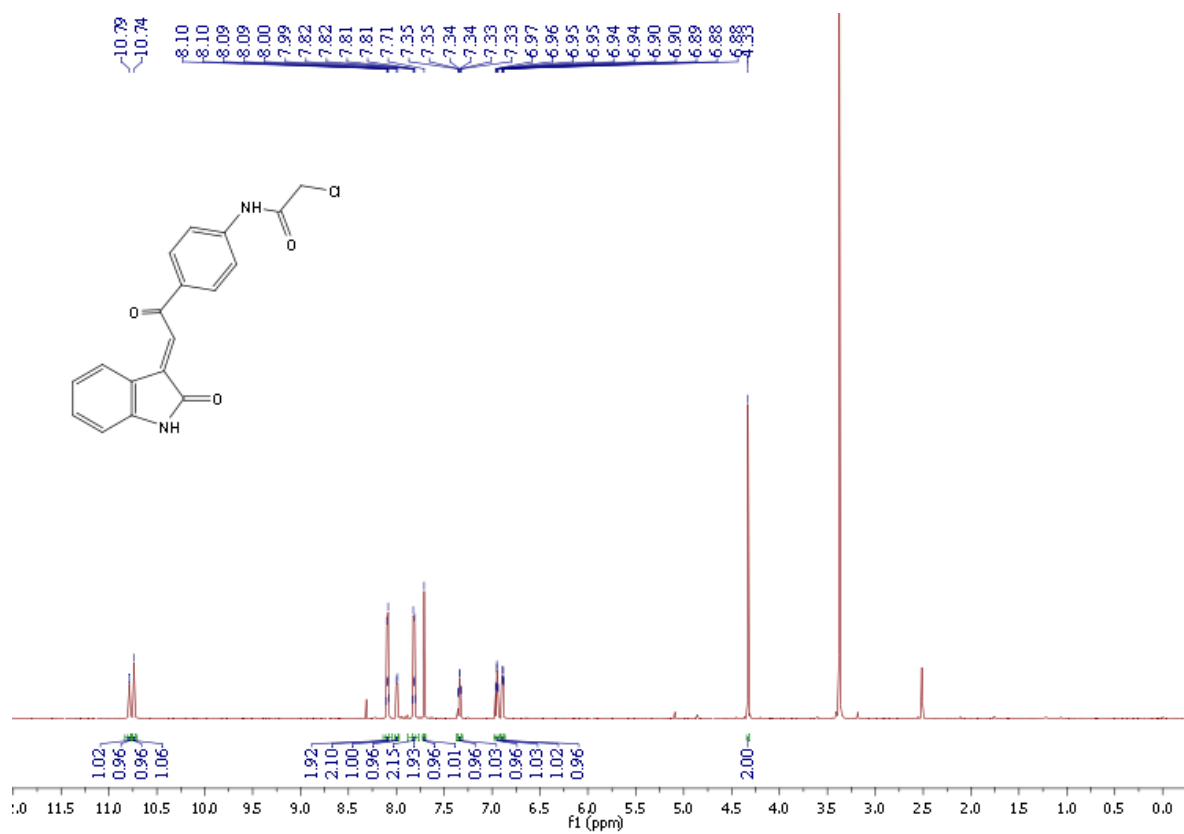


Figure S3: ¹H-NMR spectrum of compound 4 (600 MHz, DMSO-d₆)

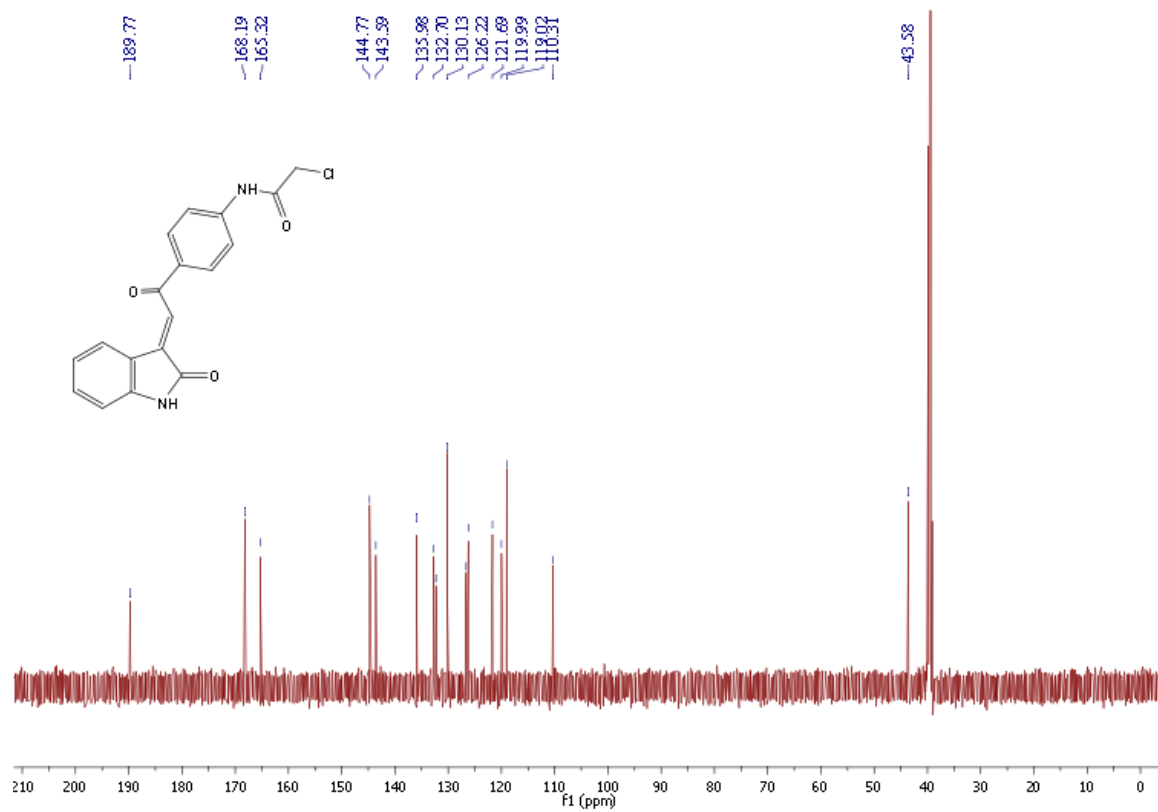
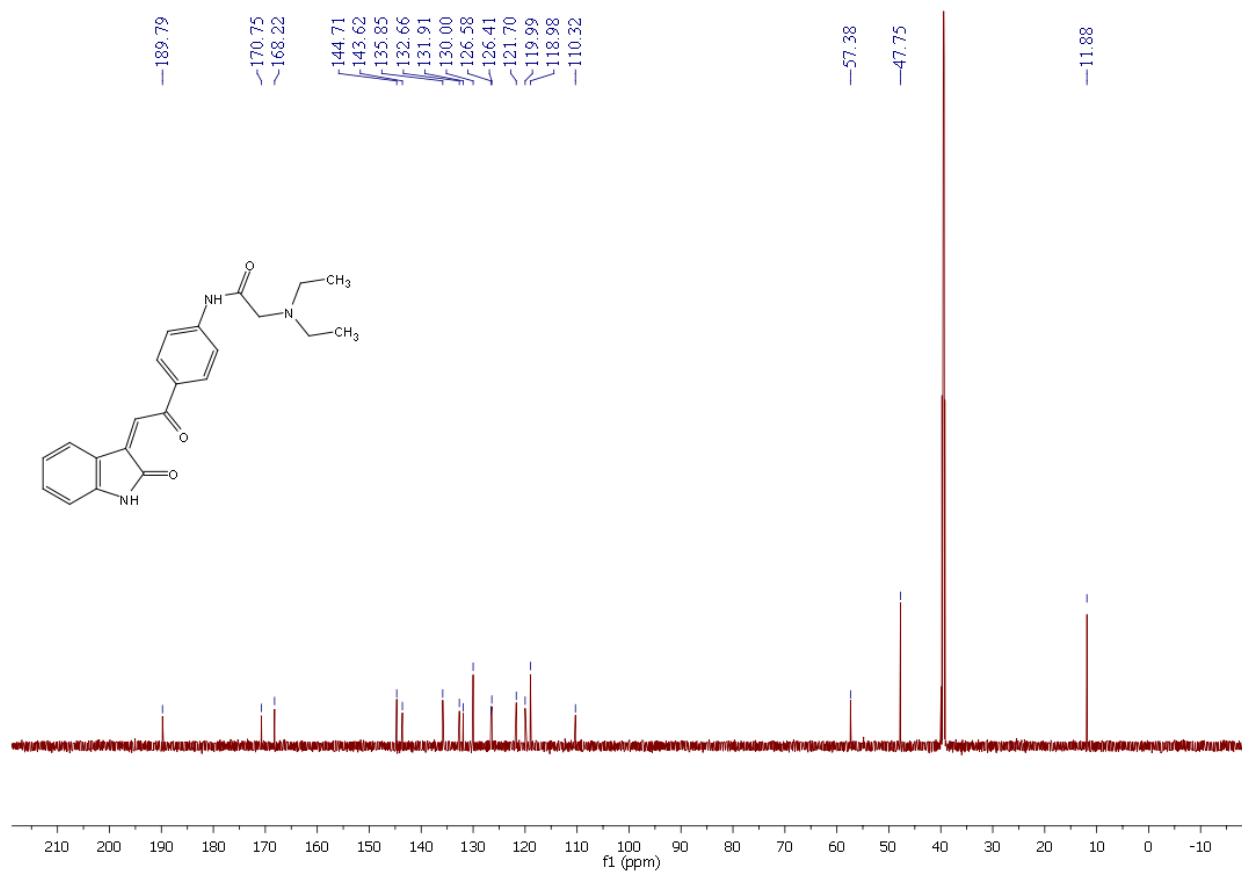
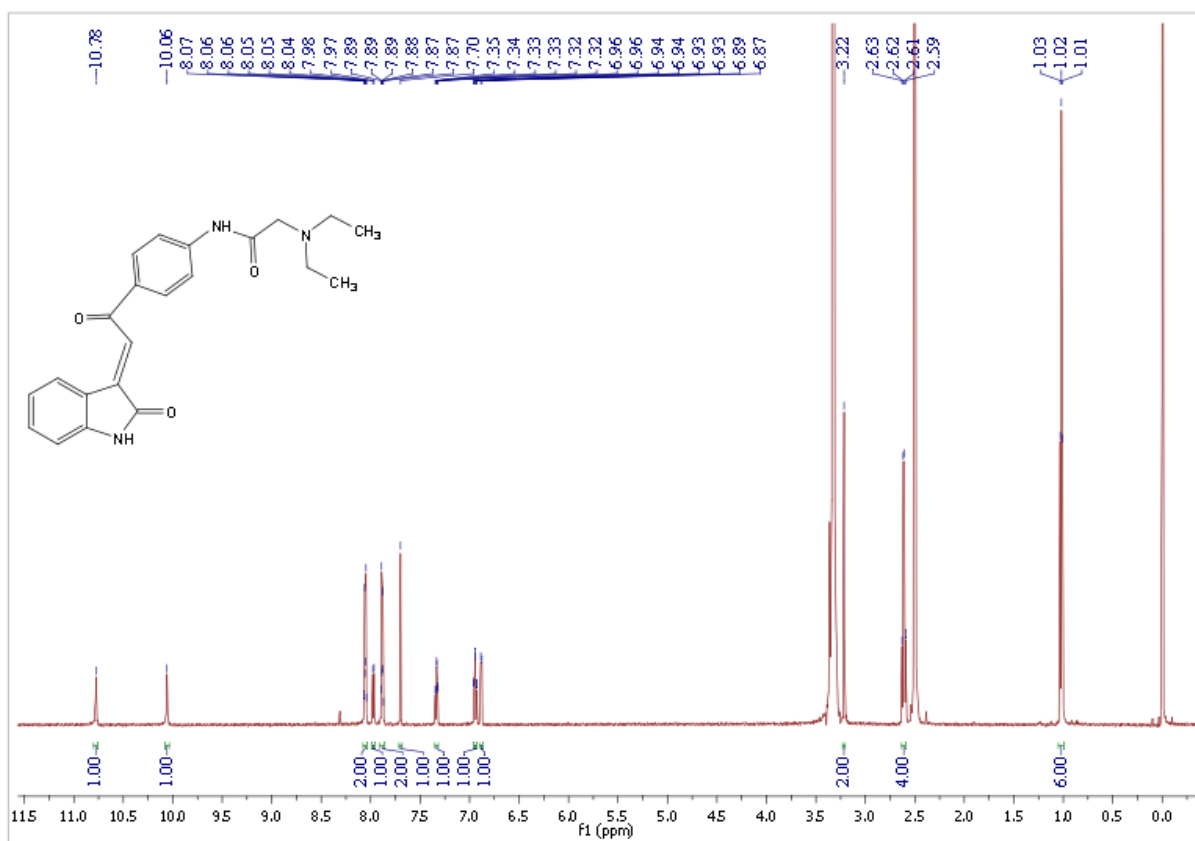
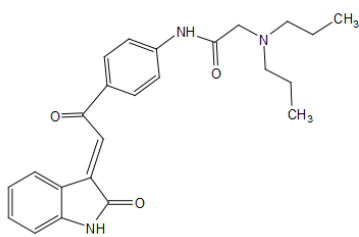


Figure S4: ¹³C-NMR spectrum of compound 4 (150 MHz, DMSO-d₆)





Chemical structure of the compound is shown above the spectrum. The structure is a benzimidazole derivative with a 4-(diethylamino)benzoyl group attached to the 2-position of the benzimidazole ring.

The mass spectrum shows the following peaks (m/z):

- 189.72
- 170.60
- 168.19
- 144.75
- 143.54
- 135.89
- 132.66
- 130.09
- 126.61
- 126.34
- 121.67
- 120.01
- 118.36
- 98.38
- 96.39
- 19.85
- 11.71

5

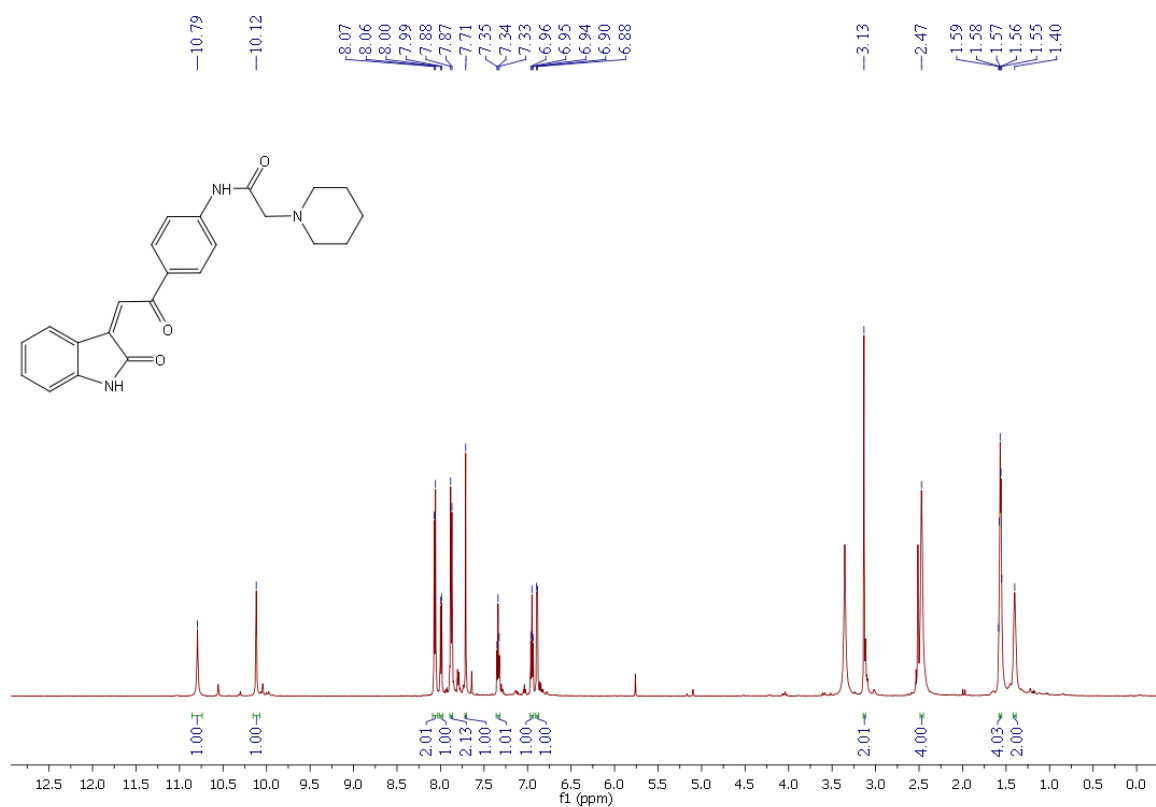


Figure S9: ¹H-NMR spectrum of compound 5c (600 MHz, DMSO-d₆)

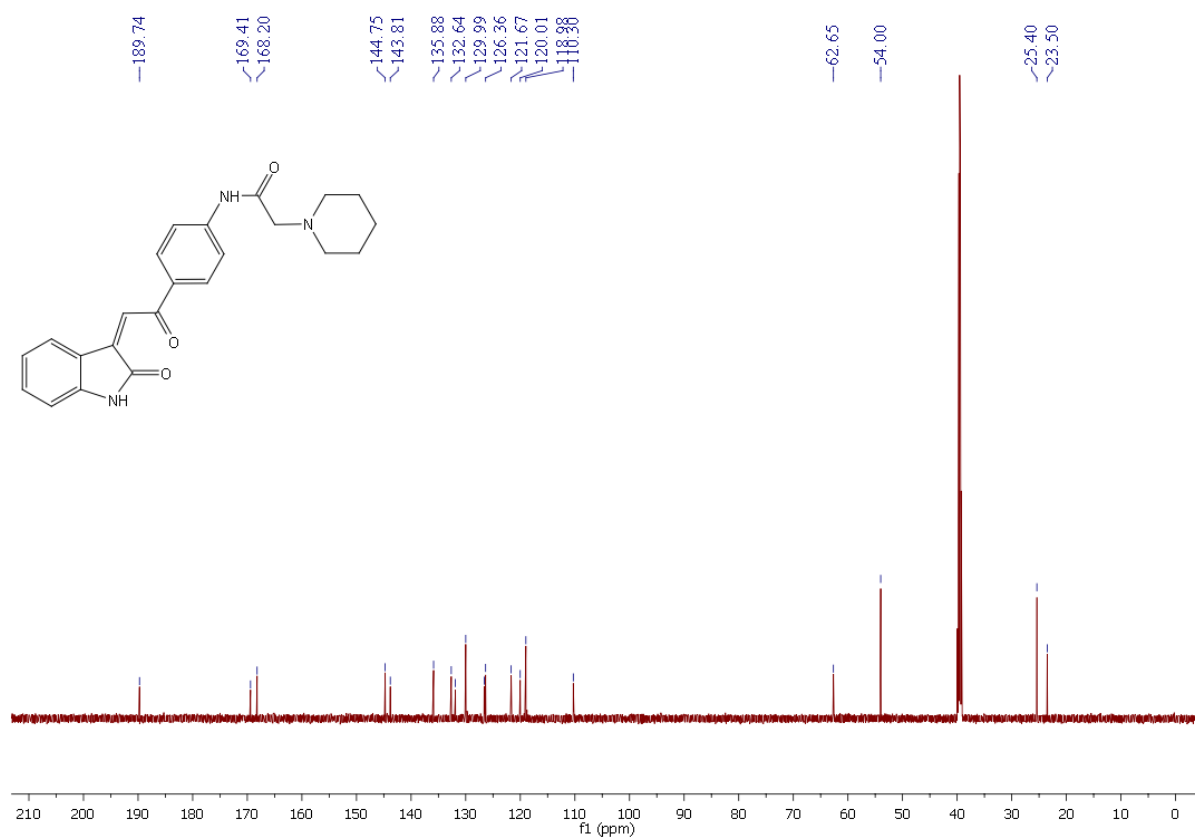


Figure S10: ¹³C-NMR spectrum of compound 5c (150 MHz, DMSO-d₆)

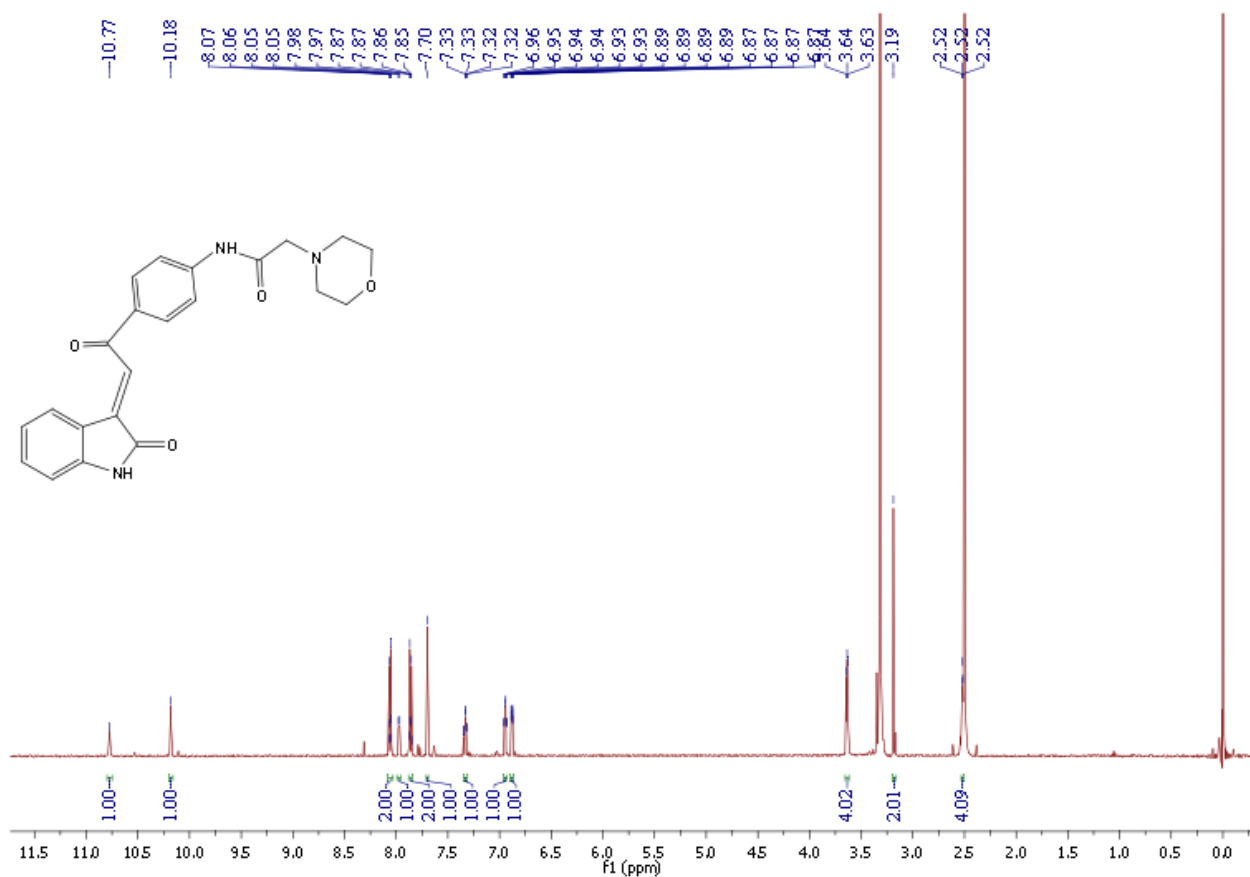


Figure S11: ¹H-NMR spectrum of compound 5d (600 MHz, DMSO-d₆)

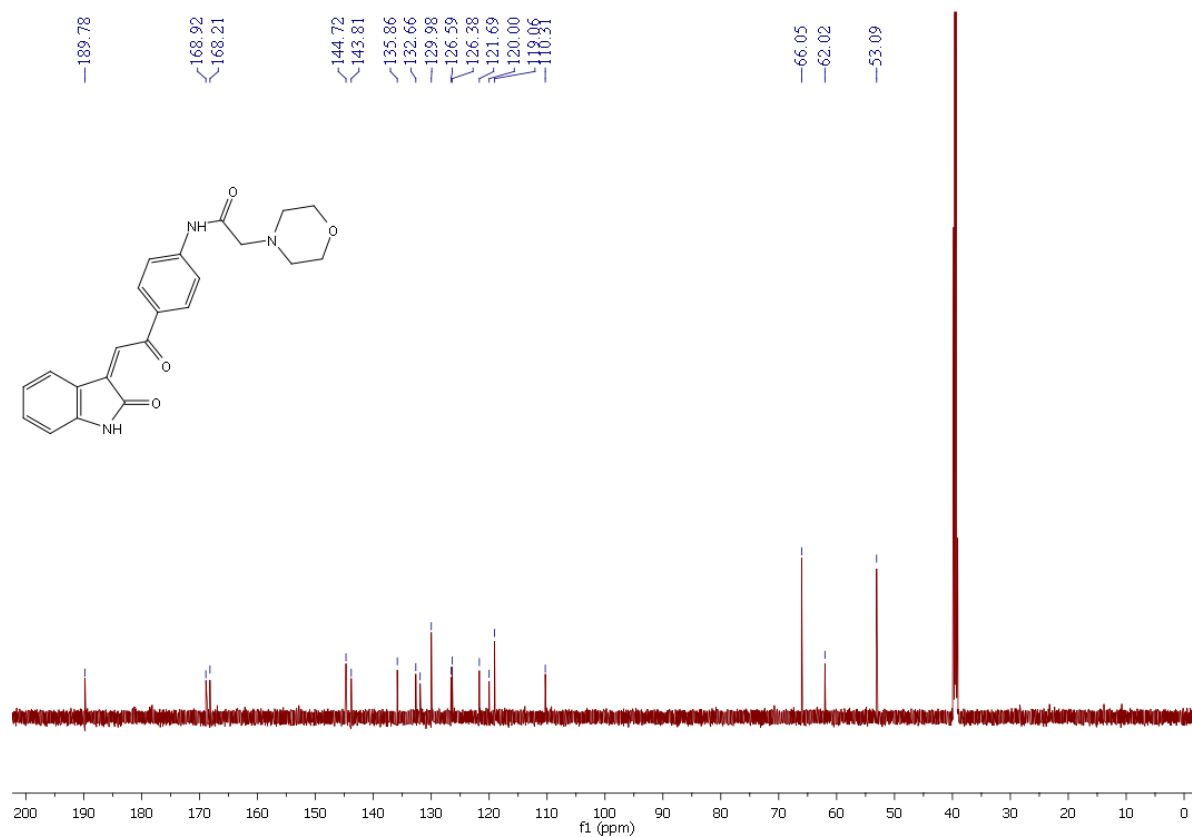


Figure S12: ¹³C-NMR spectrum of compound 5d (150 MHz, DMSO-d₆)

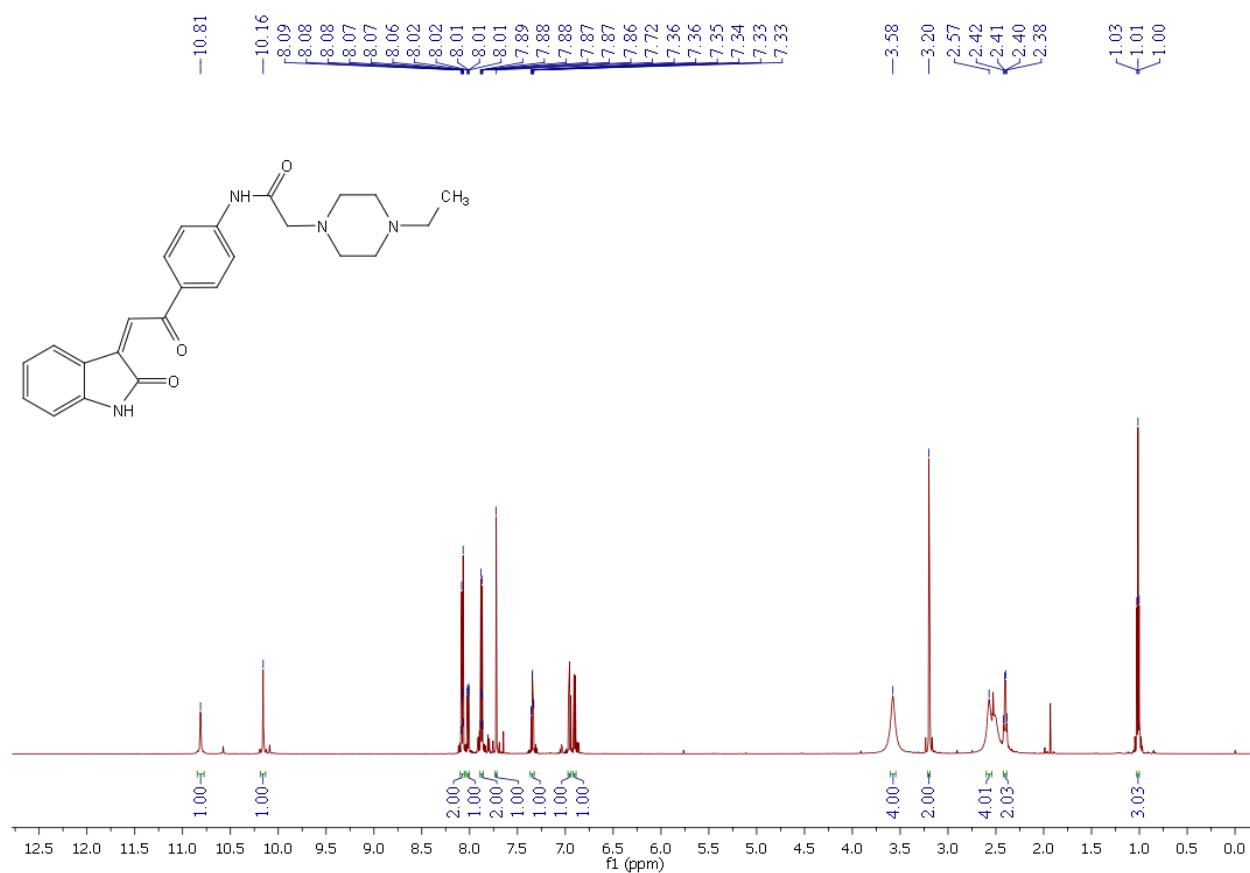


Figure S13: ¹H-NMR spectrum of compound 5e (600 MHz, DMSO-d₆)

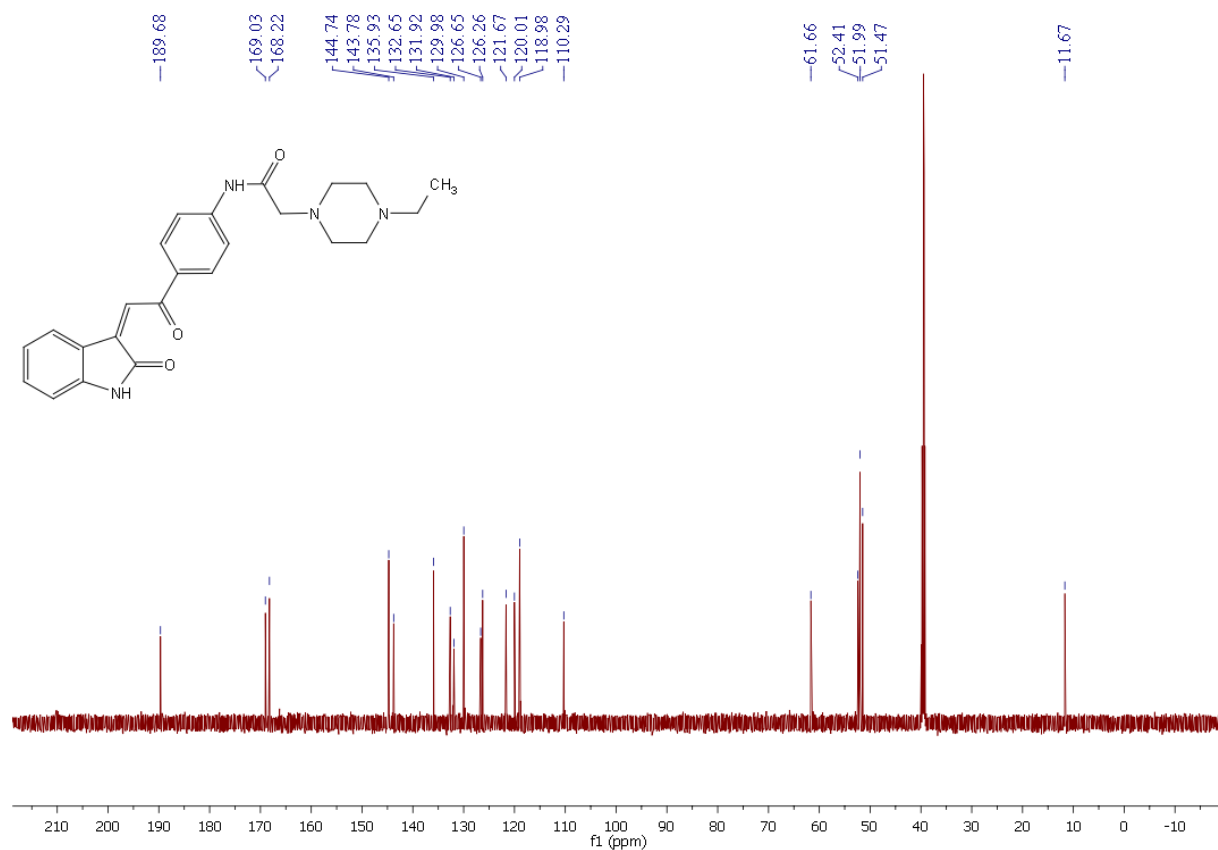


Figure S14: ¹³C-NMR spectrum of compound 5d (150 MHz, DMSO-d₆)

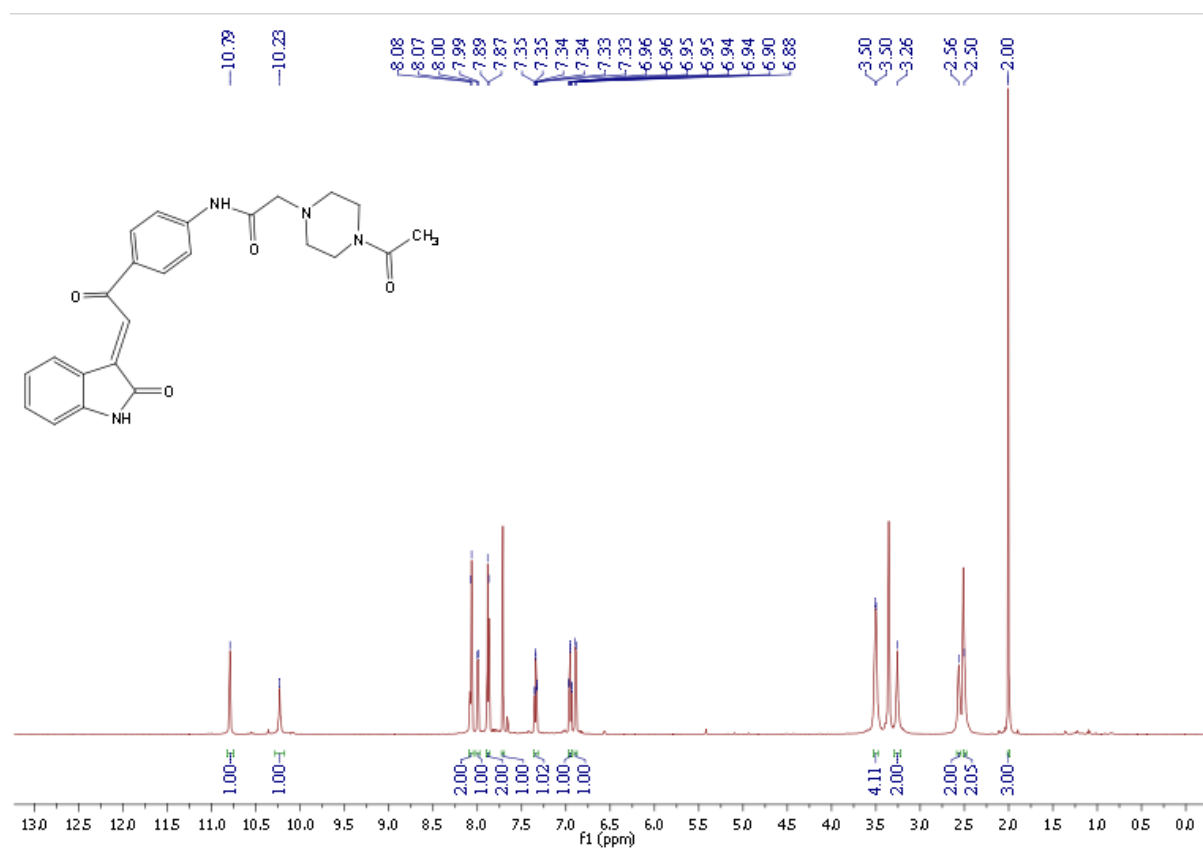


Figure S15: ¹H-NMR spectrum of compound 5f (600 MHz, DMSO-d₆)

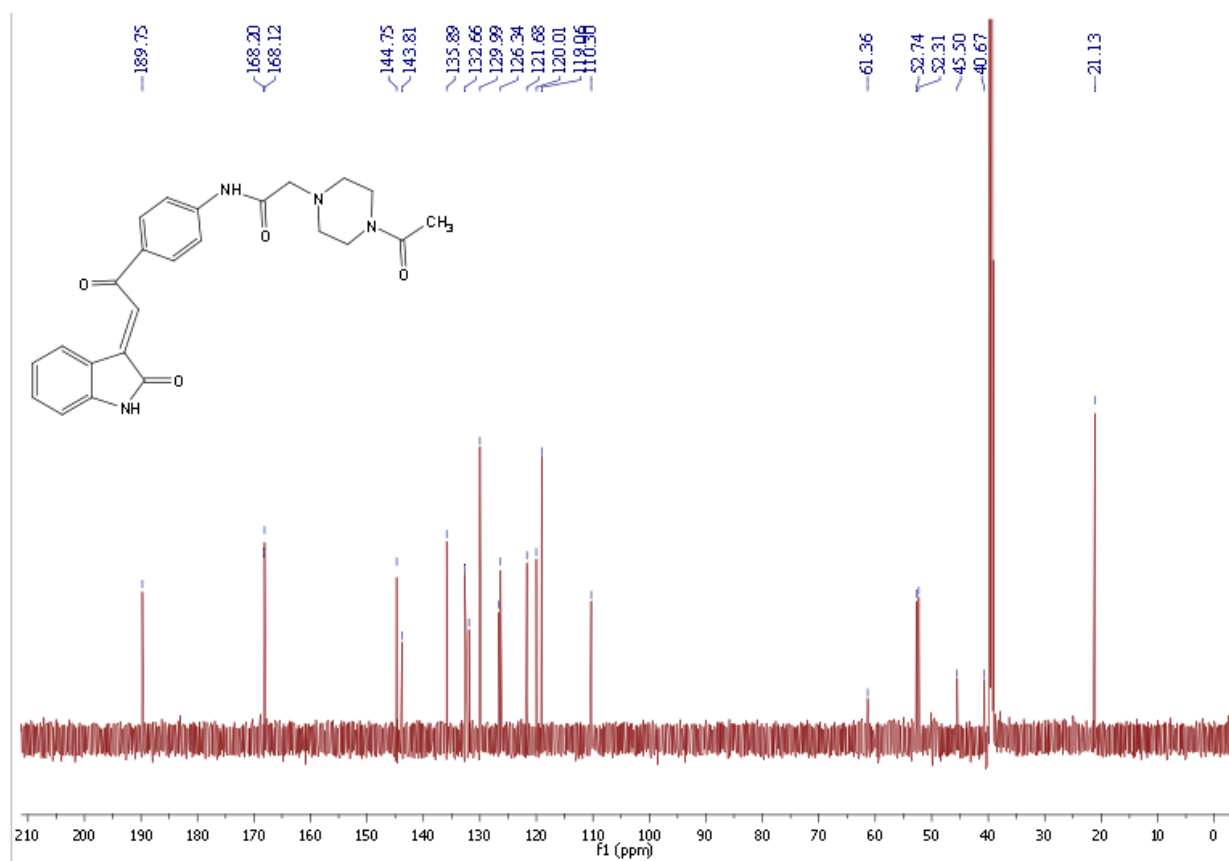


Figure S16: ¹³C-NMR spectrum of compound 5f (150 MHz, DMSO-d₆)

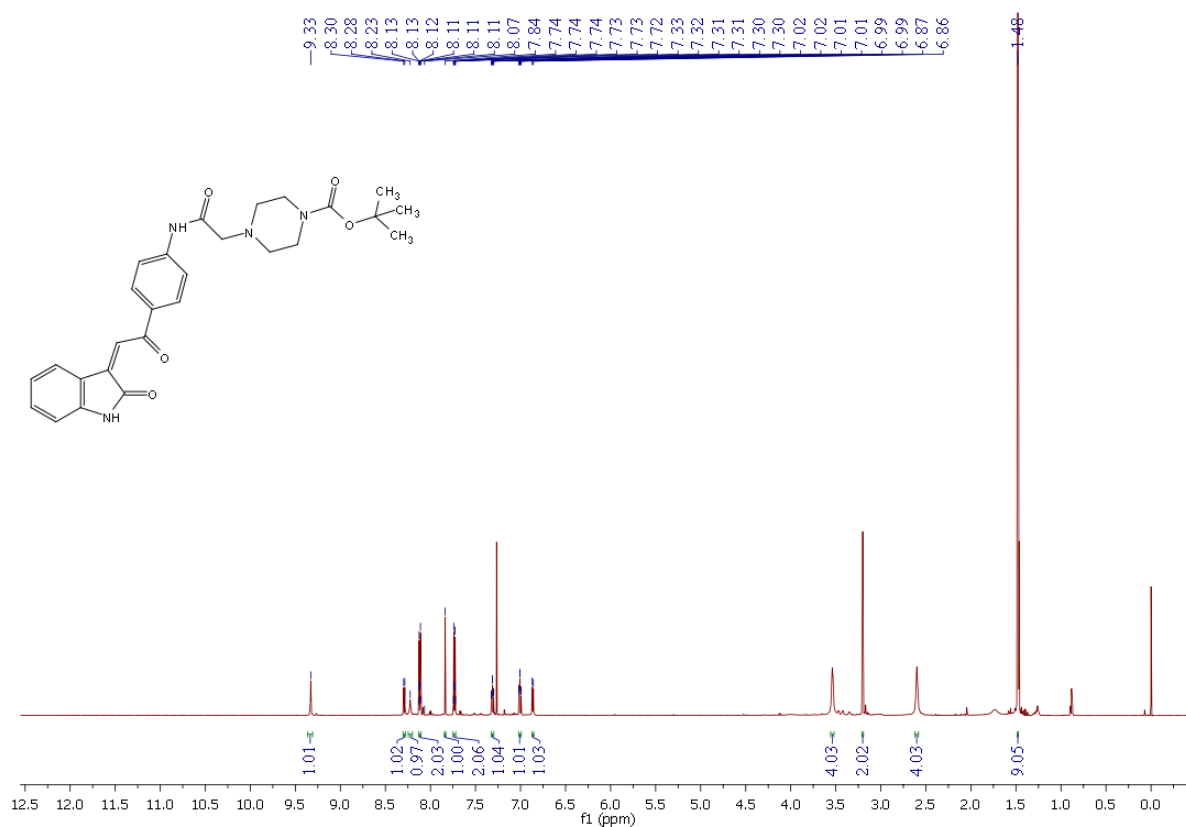


Figure S17: ¹H-NMR spectrum of compound **5g** (600 MHz, CDCl₃)

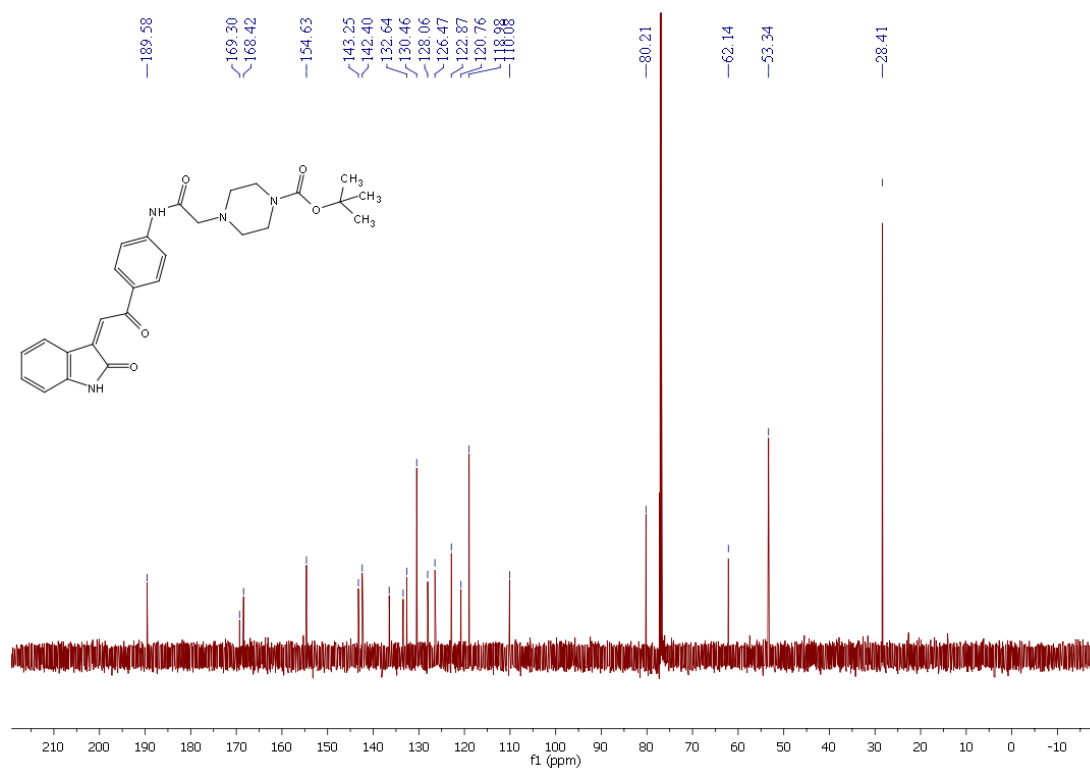


Figure S18: ¹³C-NMR spectrum of compound **5g** (150 MHz, CDCl₃)

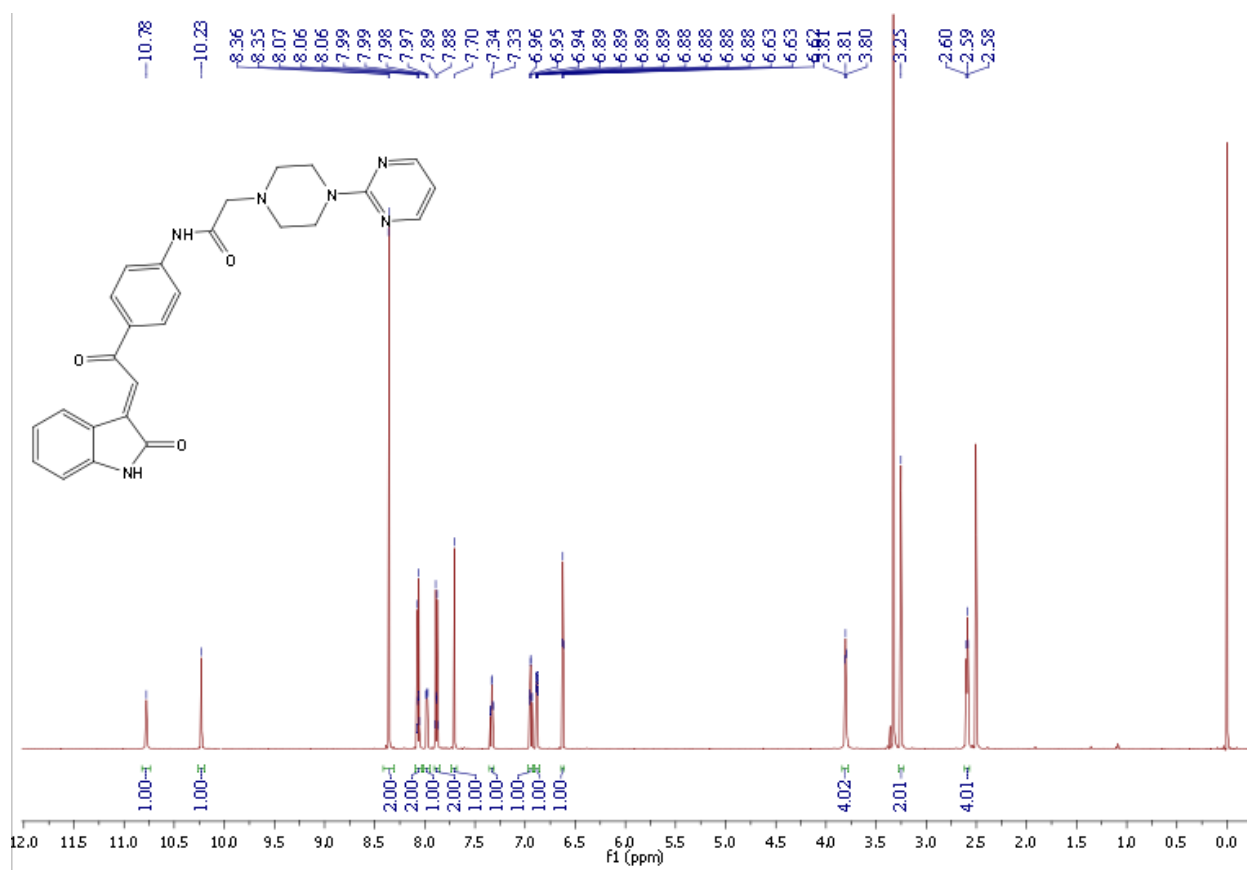


Figure S19: ¹H-NMR spectrum of compound **5h** (600 MHz, DMSO-d₆)

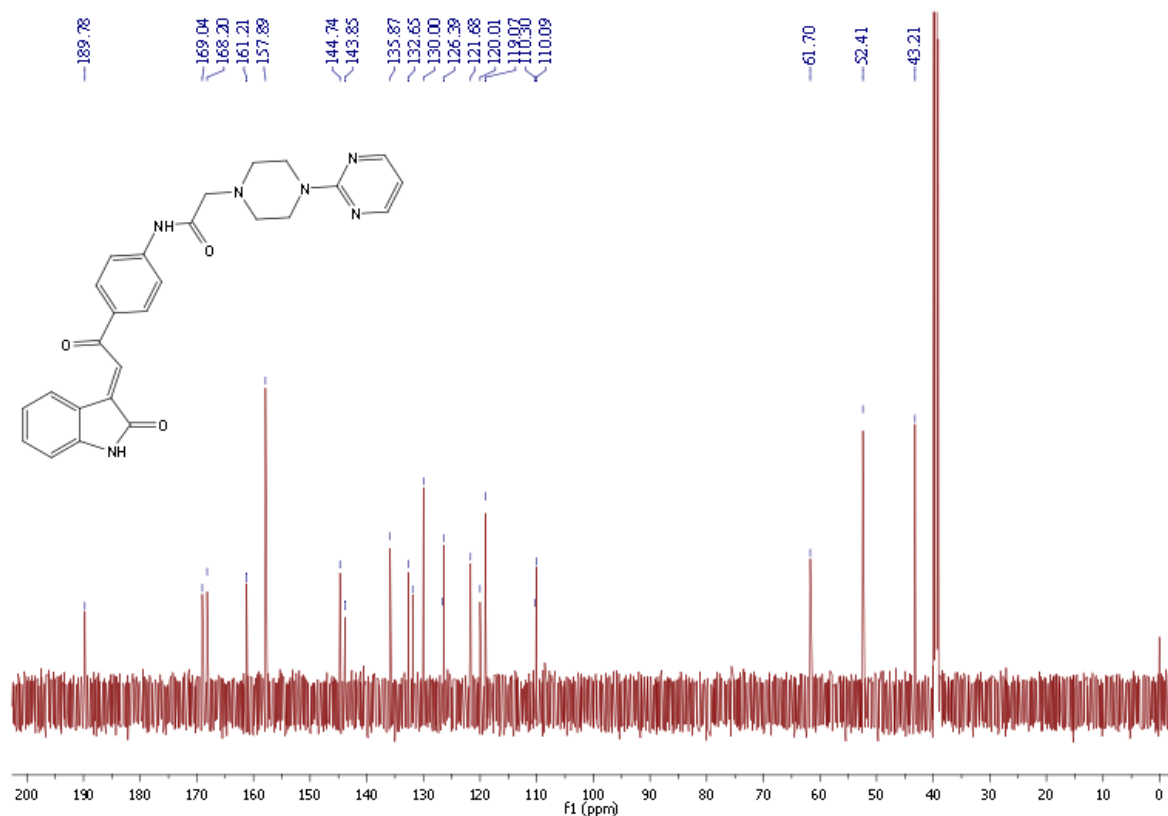


Figure S20: ¹³C-NMR spectrum of compound **5h** (150 MHz, DMSO-d₆)

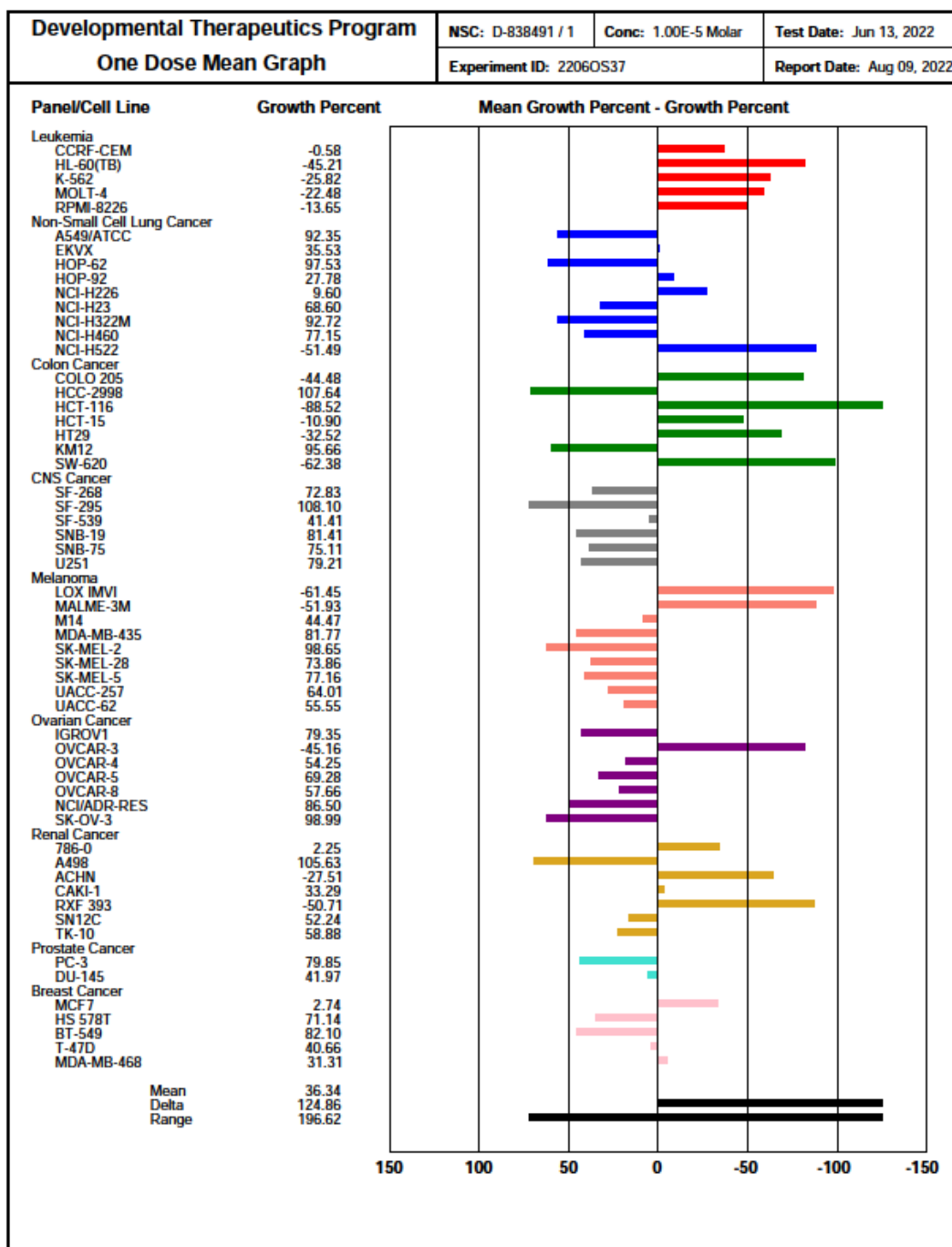


Figure S21. NCI SRB assay mean graph of compound **5a** at 10 μ M concentration.

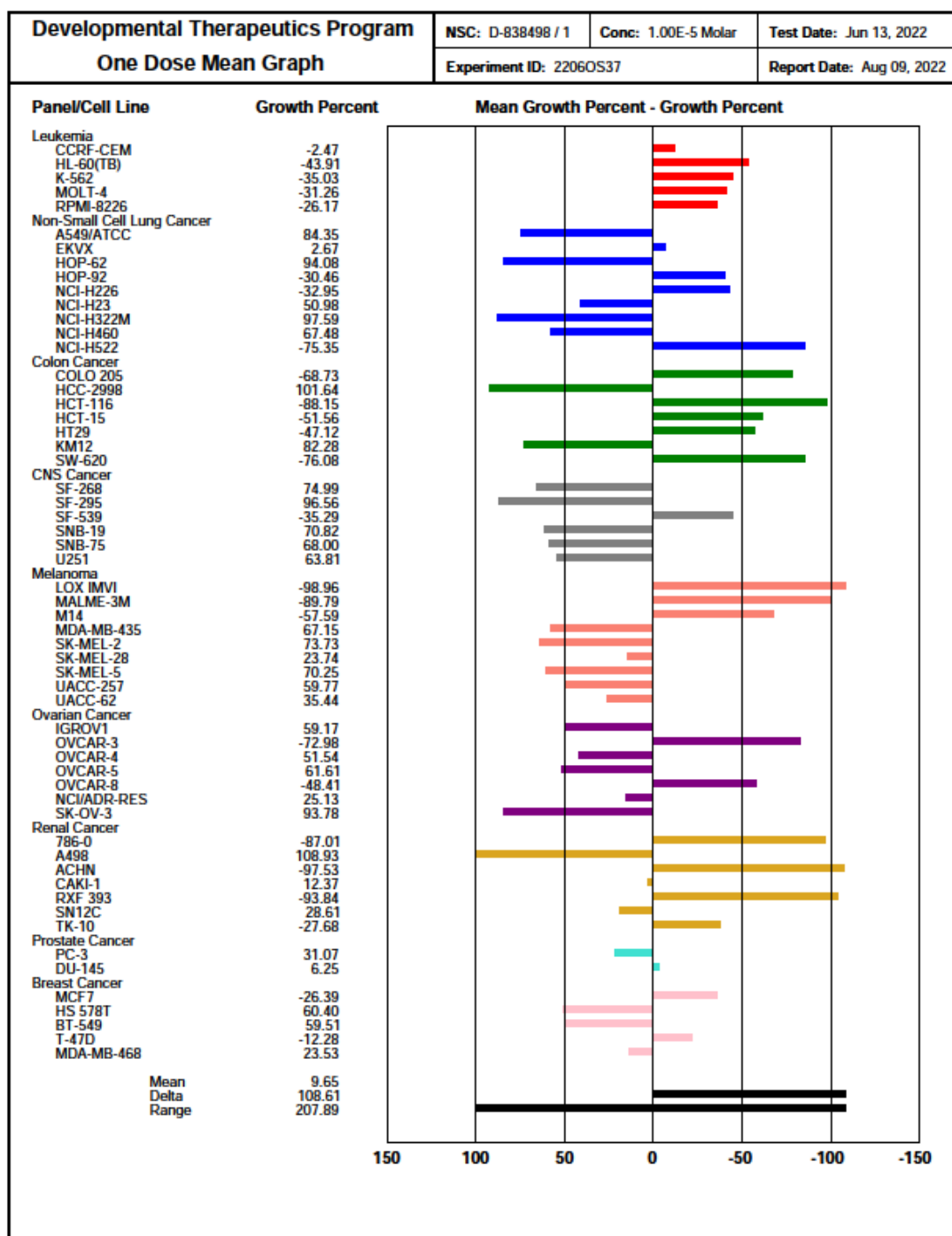


Figure S22. NCI SRB assay mean graph of compound **5b** at 10 μ M concentration.

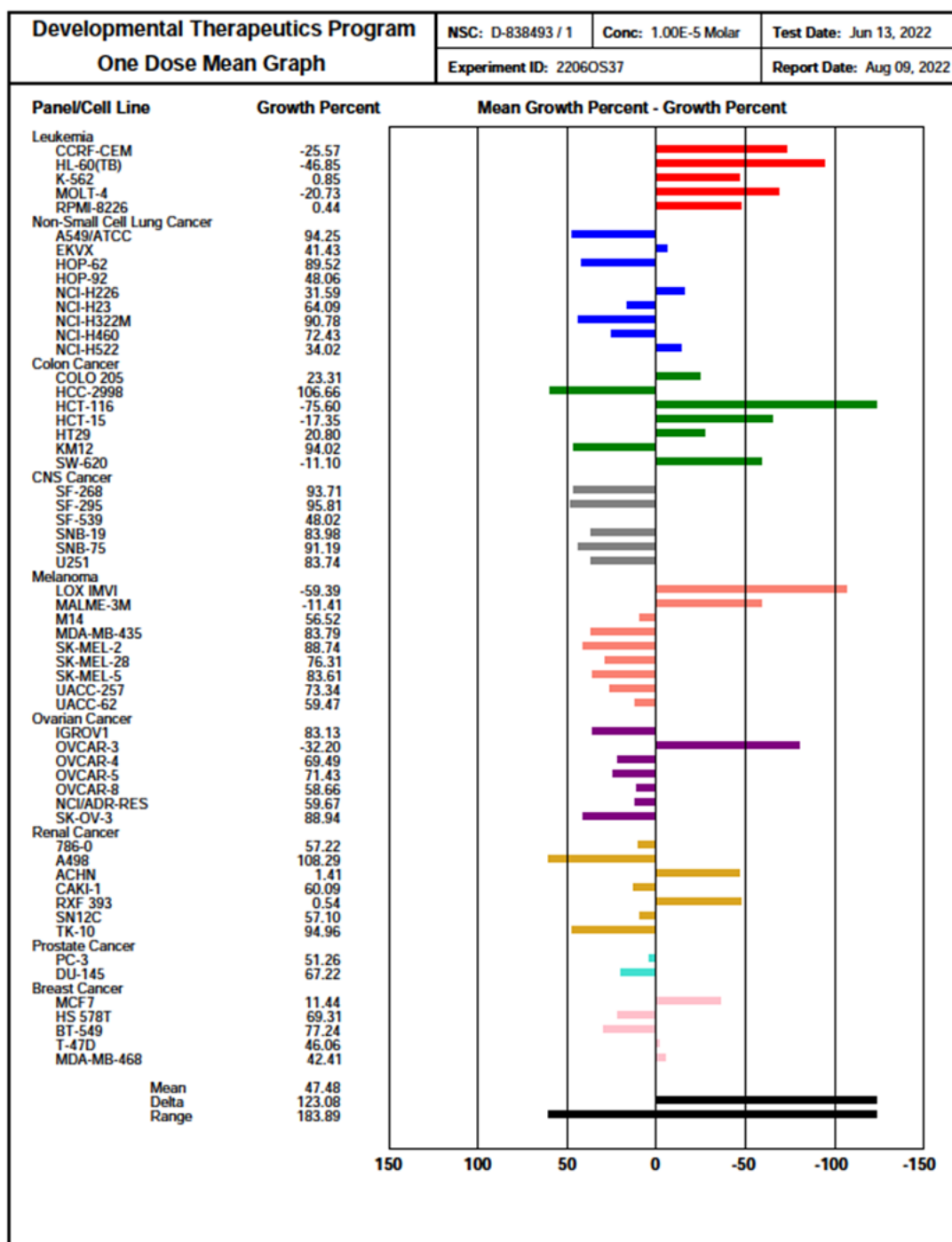


Figure S23. NCI SRB assay mean graph of compound 5c at 10 μ M concentration.

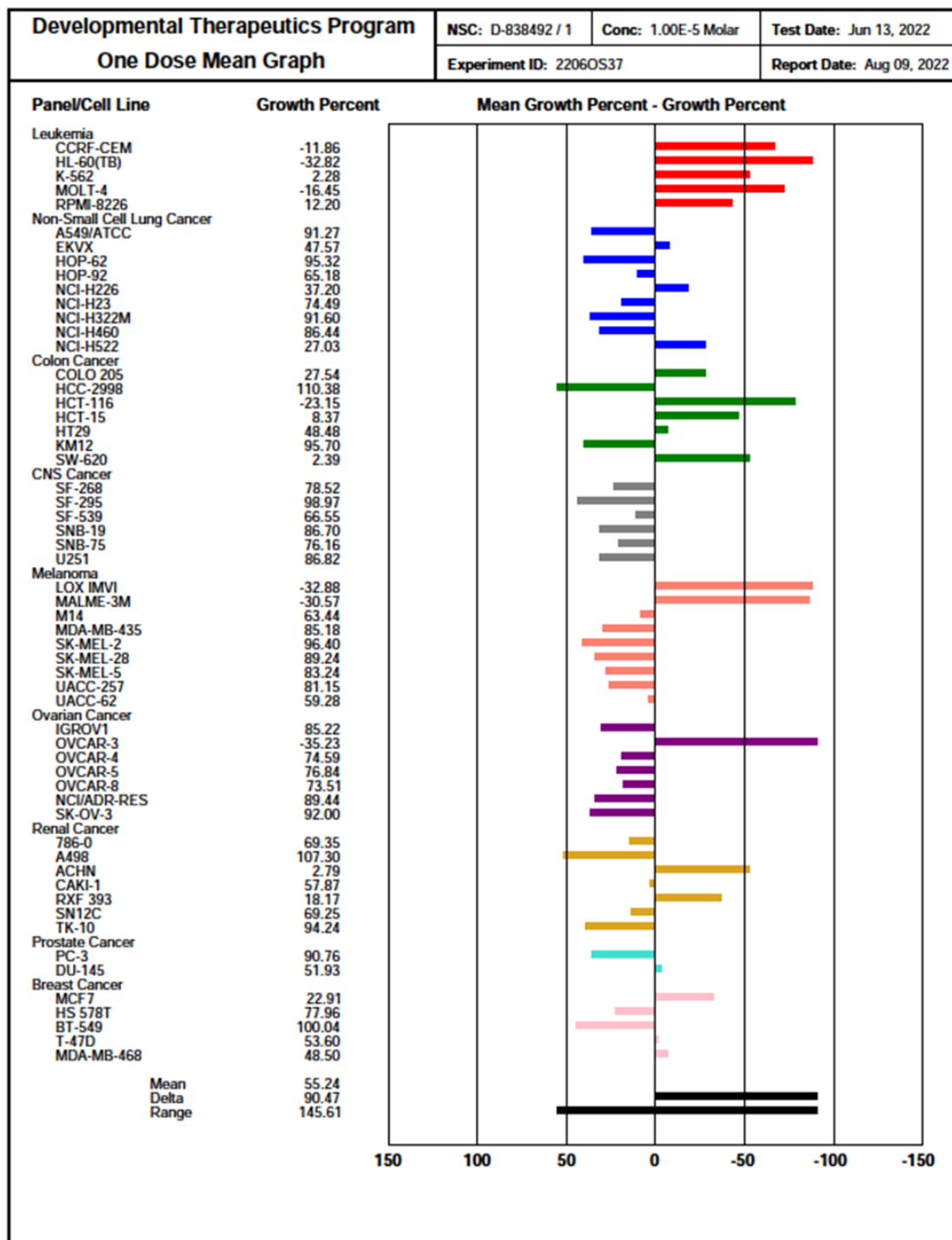


Figure S24. NCI SRB assay mean graph of compound 5d at 10 µM concentration.

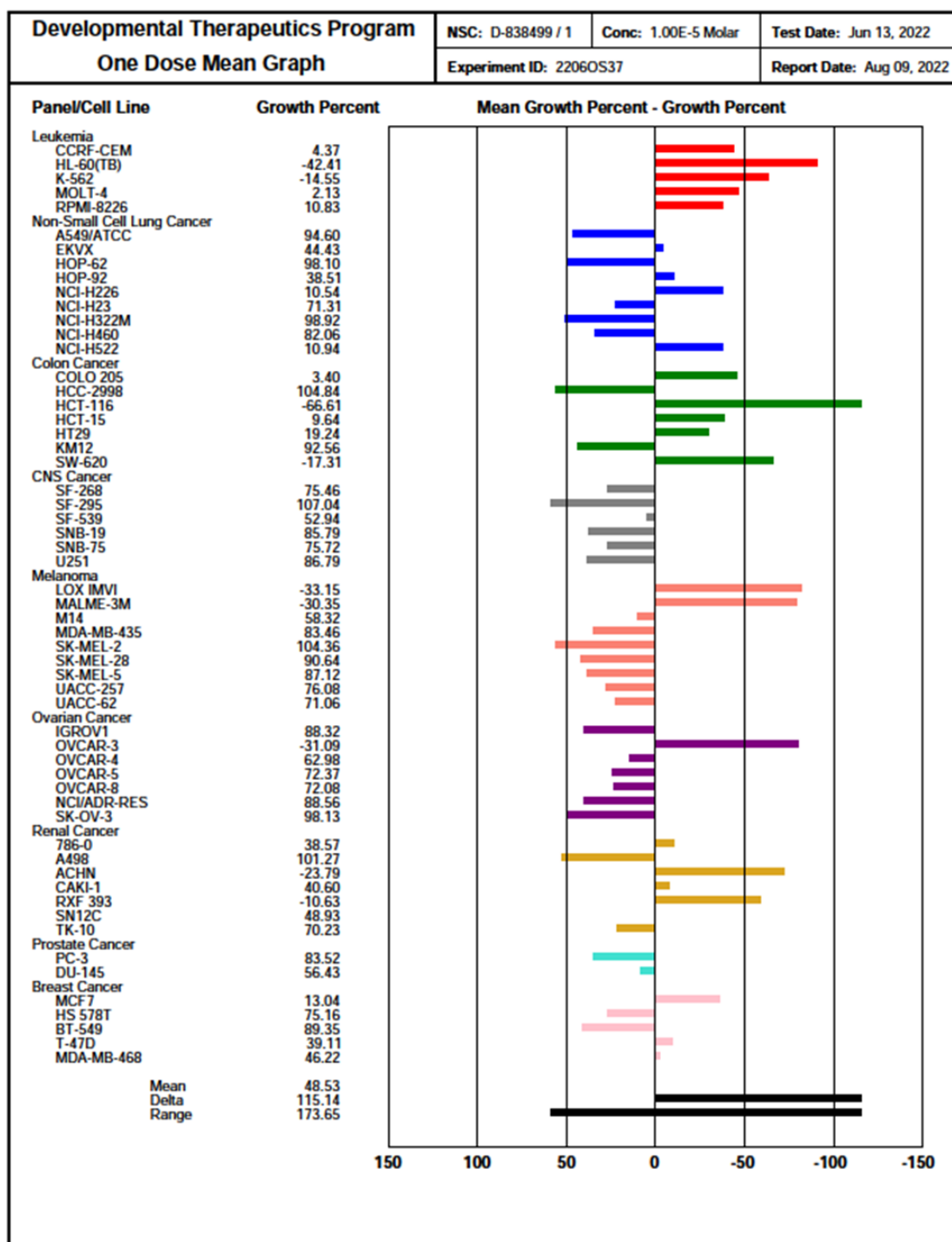


Figure S25. NCI SRB assay mean graph of compound **5e** at 10 μ M concentration.

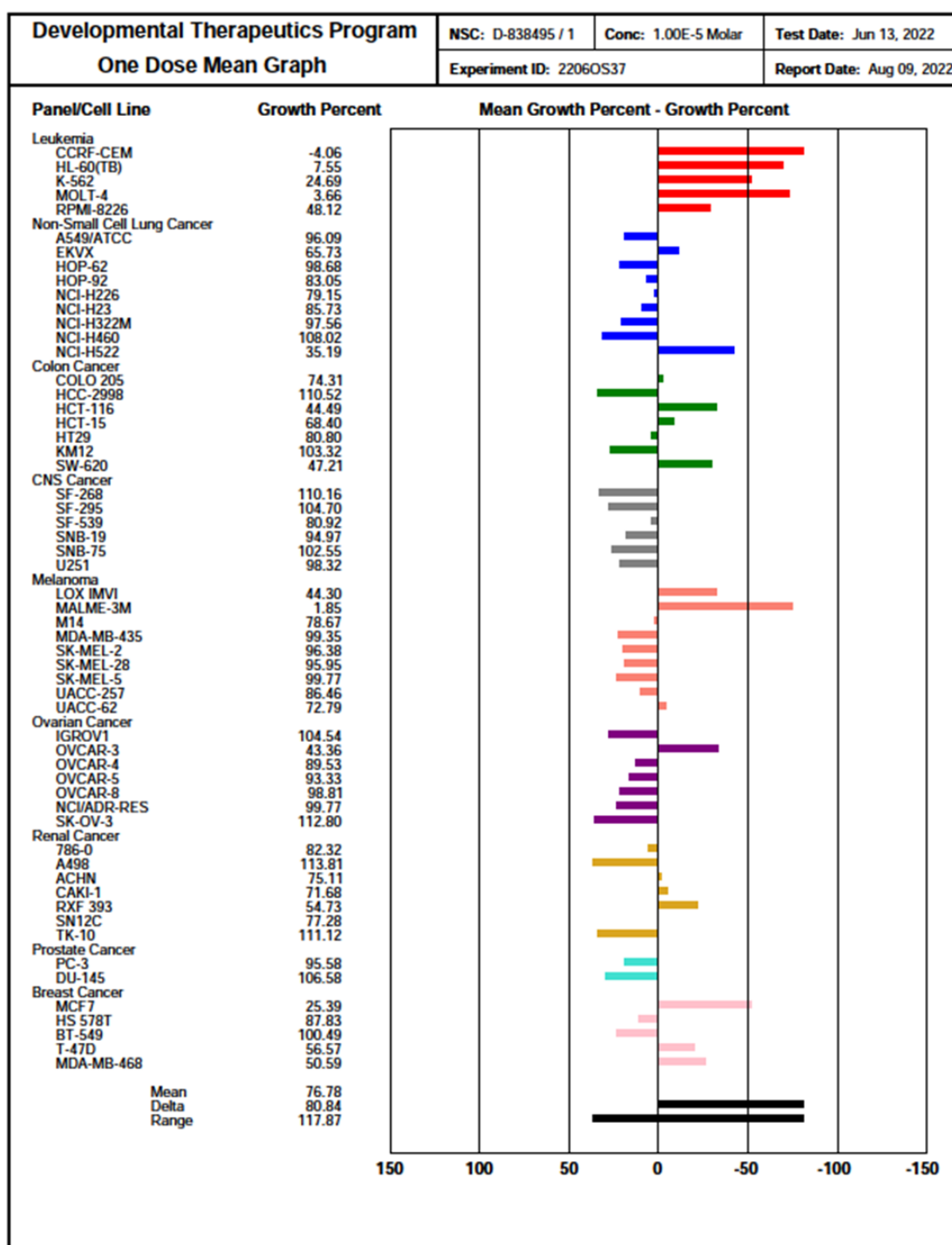


Figure S26. NCI SRB assay mean graph of compound **5f** at 10 μ M concentration.

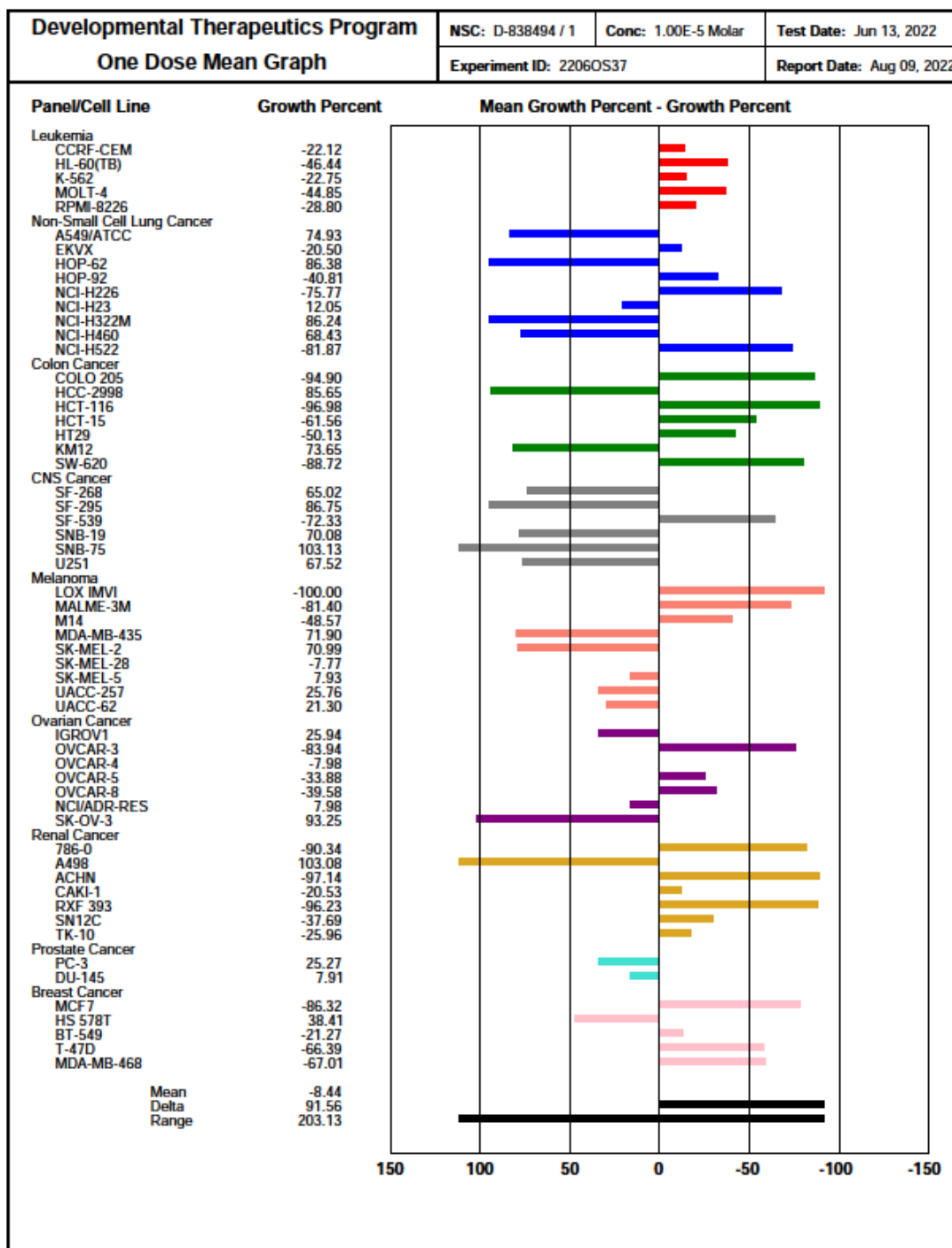


Figure S27. NCI SRB assay mean graph of compound **5g** at 10 μ M concentration.

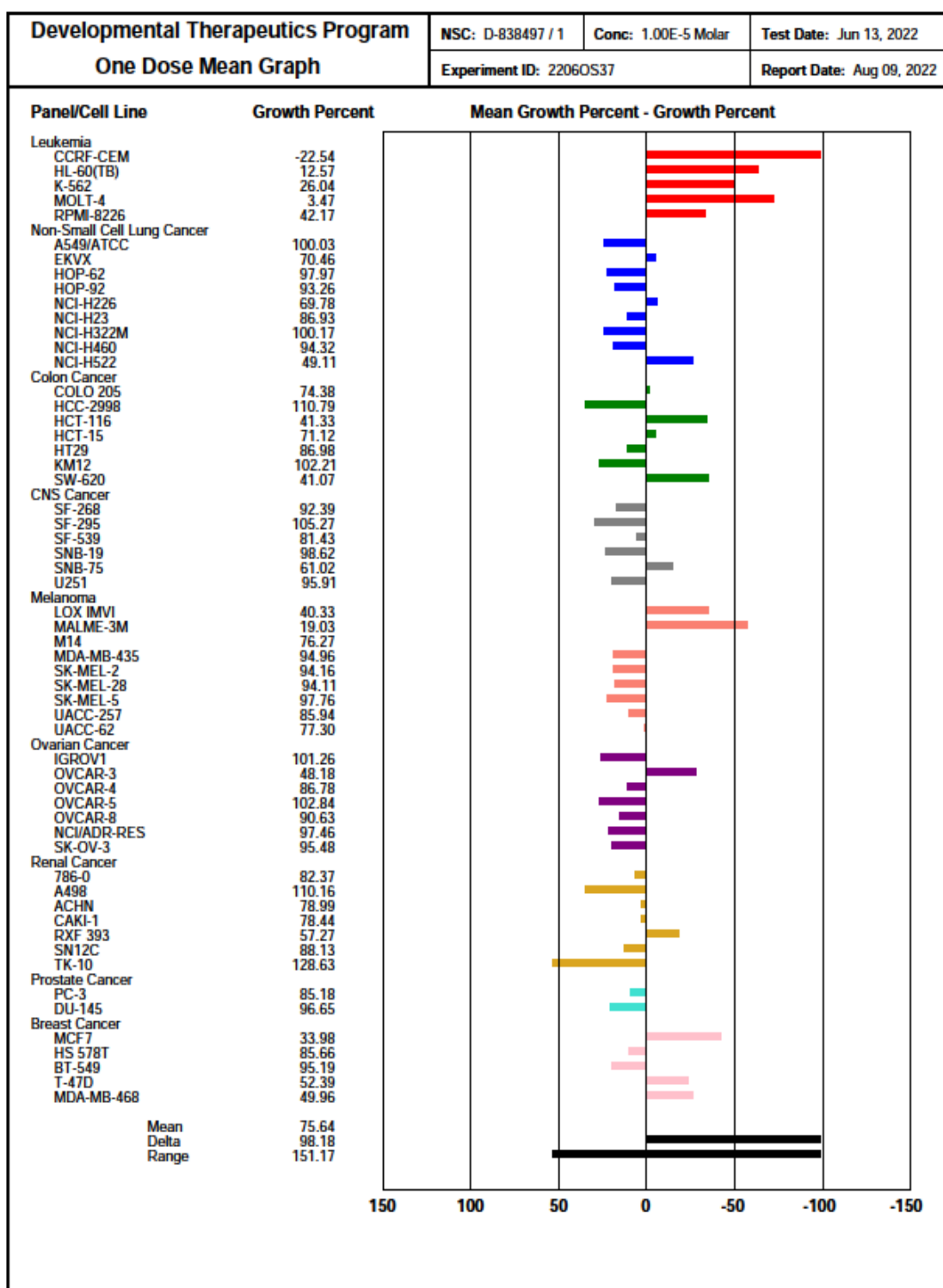


Figure S28. NCI SRB assay mean graph of compound **5h** at 10 μ M concentration.