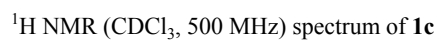
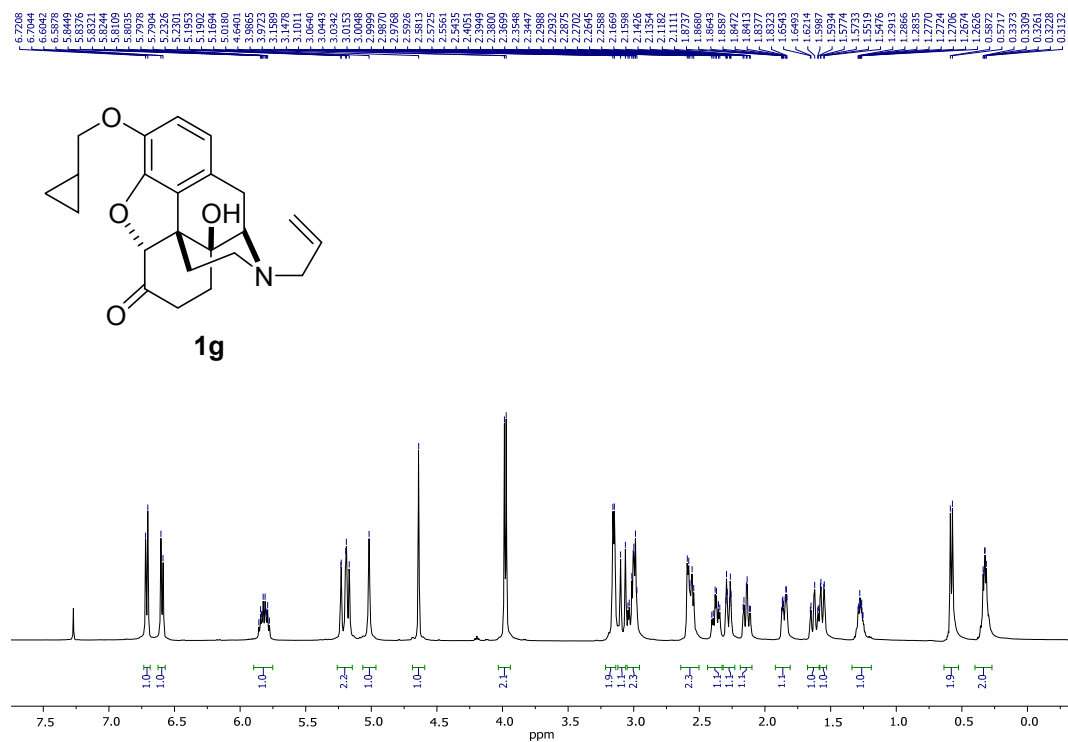


**Applying Gewald reaction for the preparation of some novel
aminothieno derivatives featuring noroxymorphone skeletal
backbone**

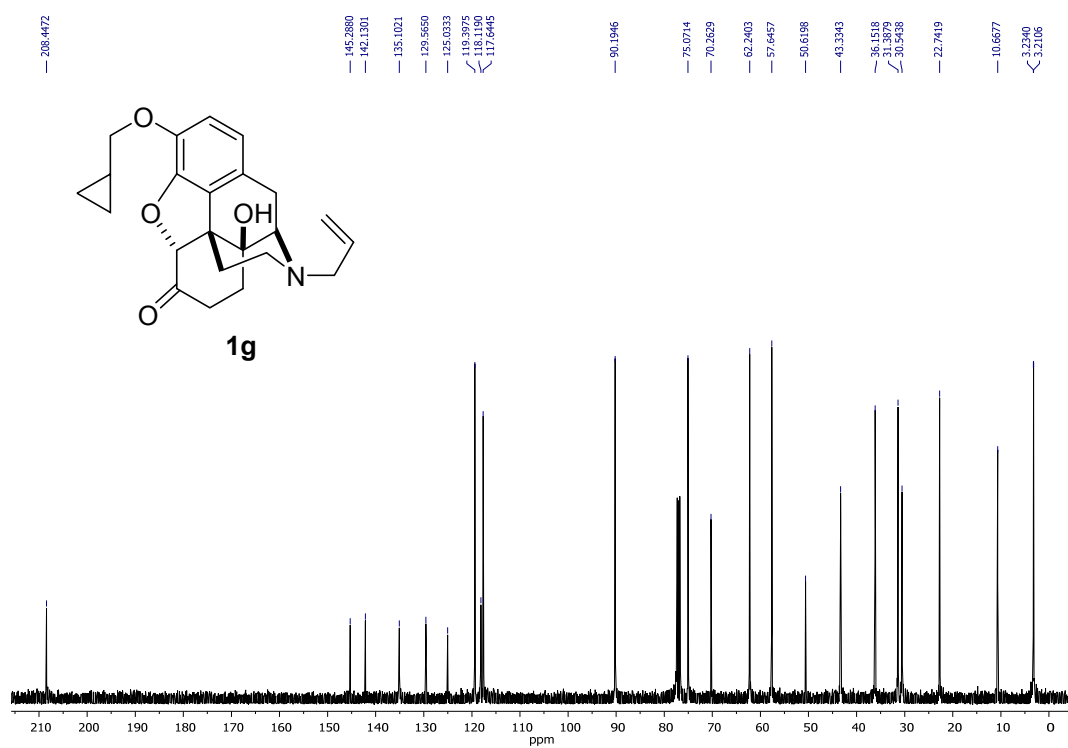
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Research Center of Iran, Pajouhesh Blvd, 17th Km Tehran-Karaj Highway, P.O.Box 14335-186,
Tehran, Iran*

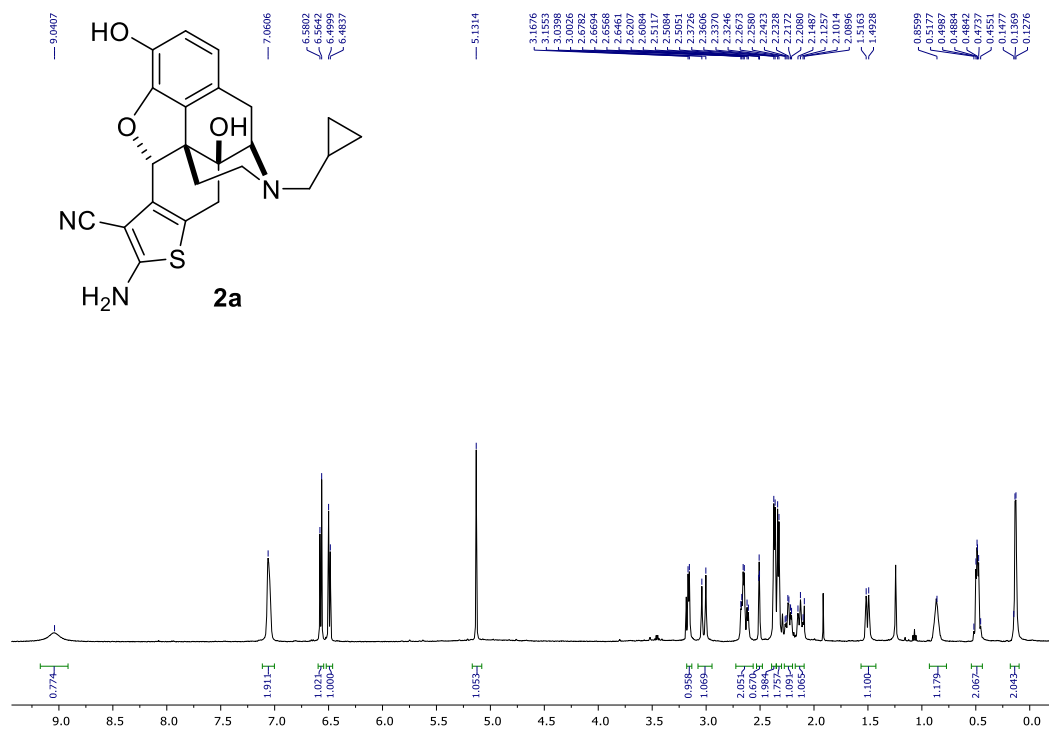




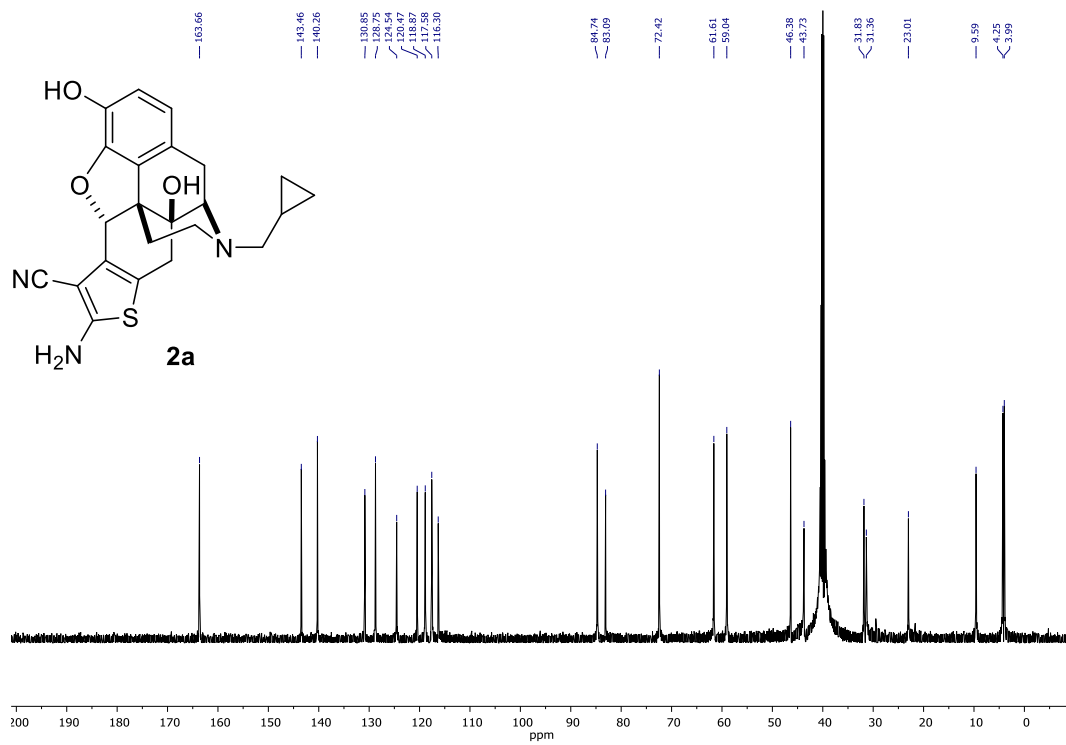
¹H NMR (CDCl₃, 500 MHz) spectrum of **1g**



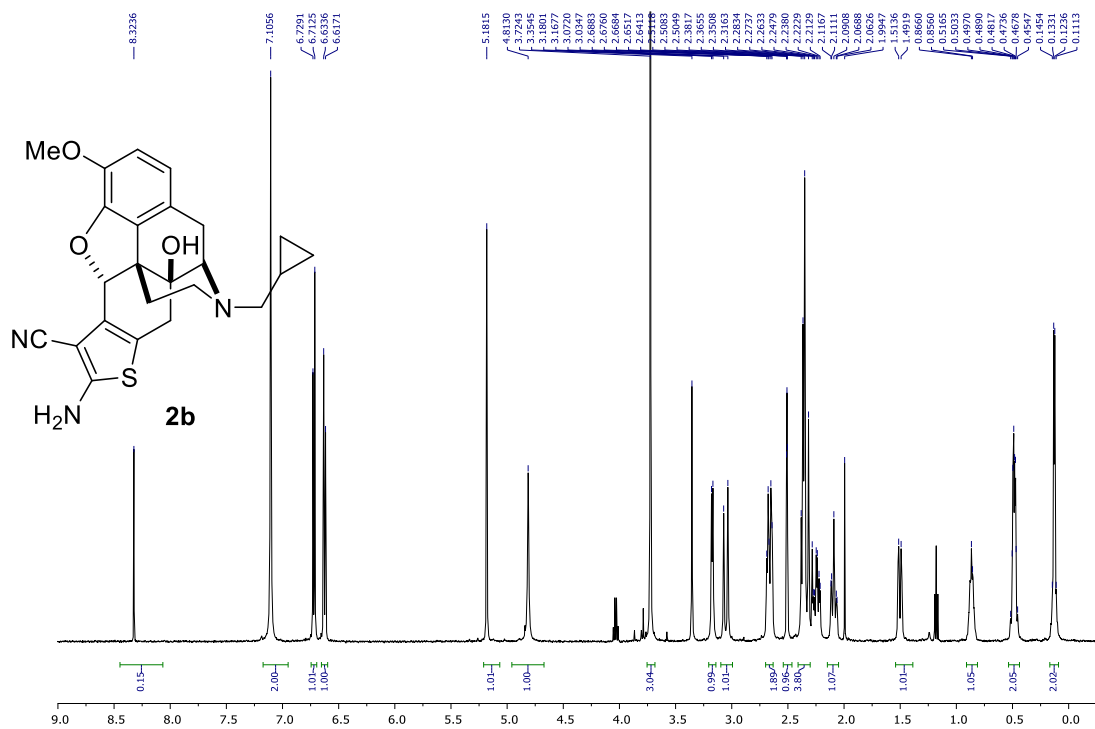
¹³C NMR (CDCl₃, 500 MHz) spectrum of **1g**



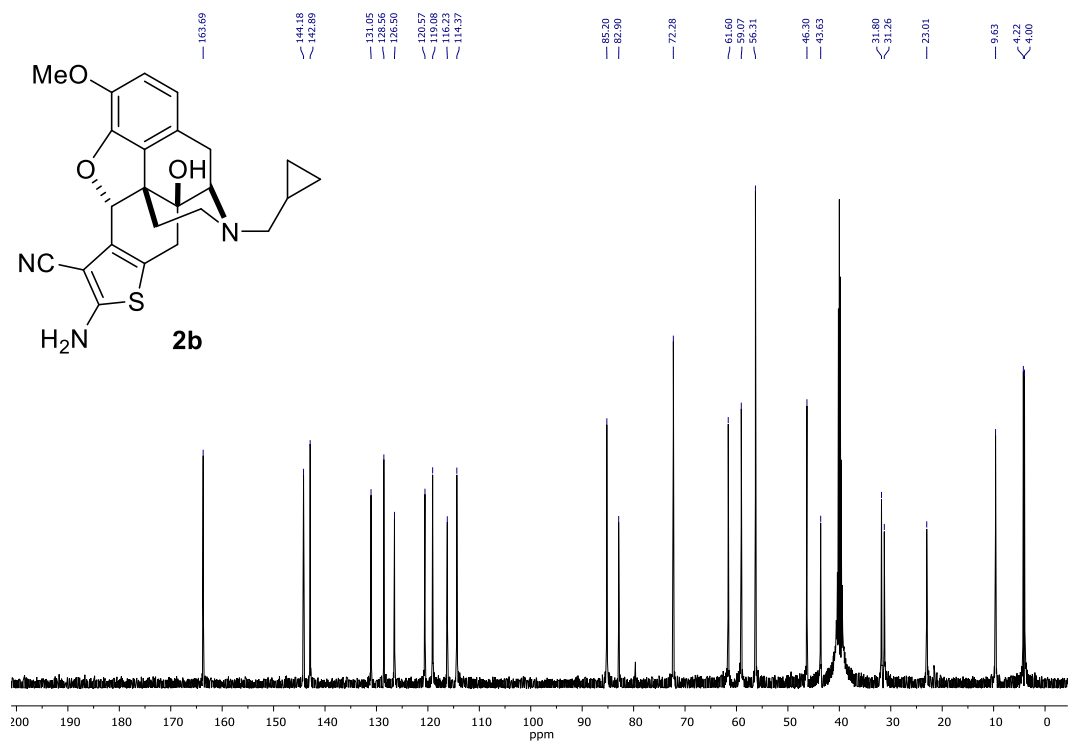
¹H NMR (DMSO-d₆, 500 MHz) spectrum of **2a**



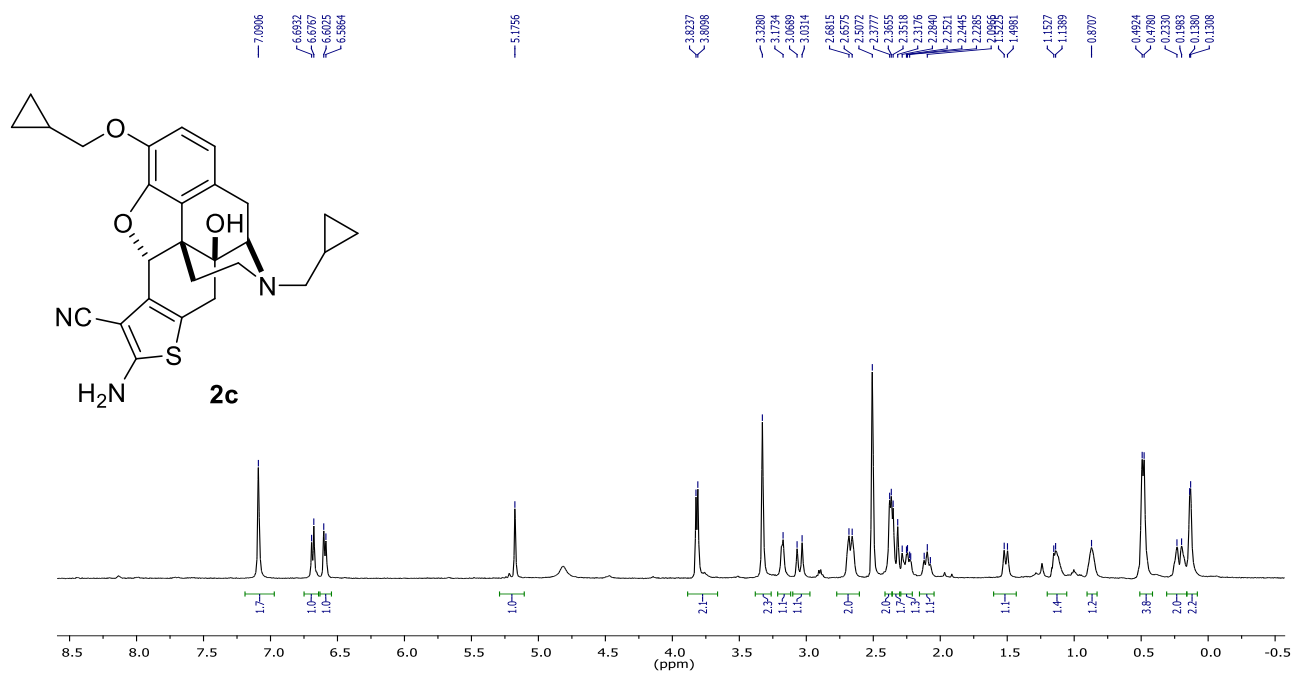
¹³C NMR (DMSO-d₆, 500 MHz) spectrum of **2a**



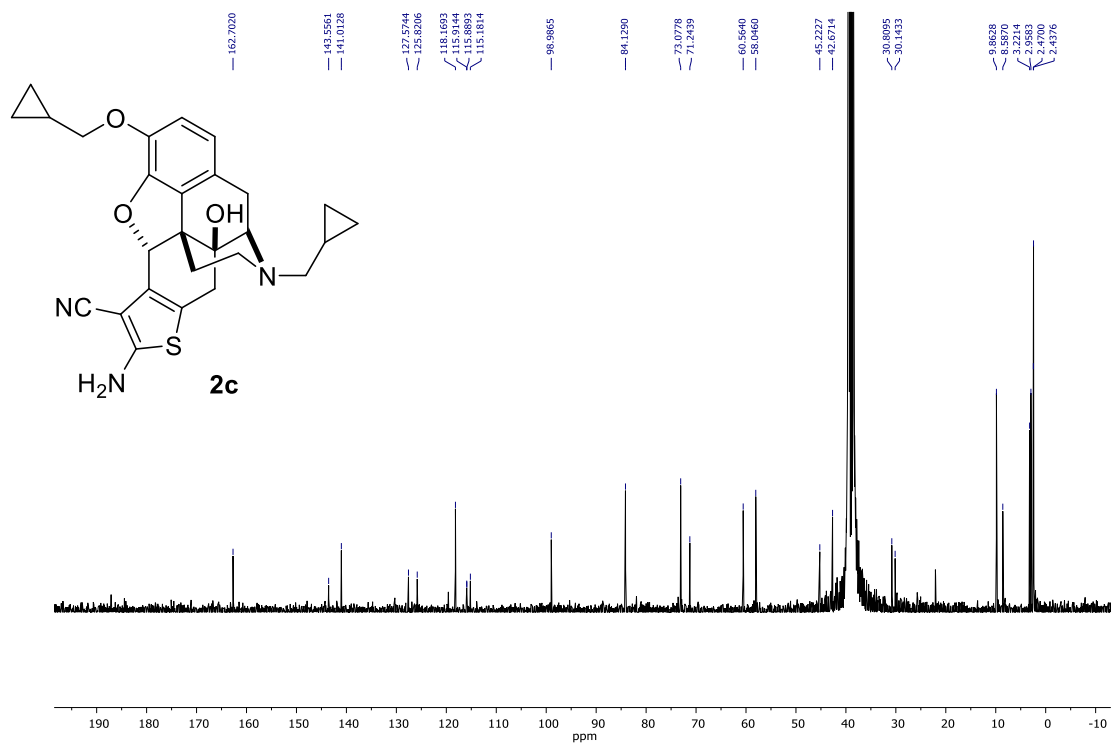
¹H NMR (DMSO-d₆, 500 MHz) spectrum of **2b**



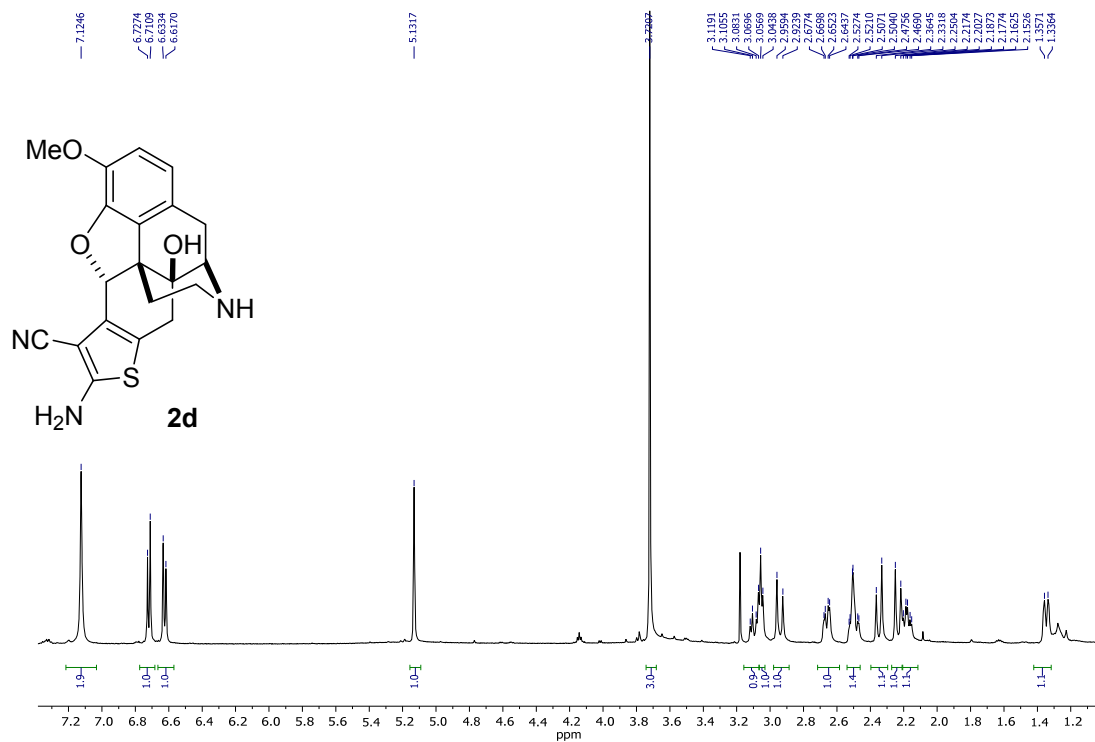
¹³C NMR (DMSO-d₆, 500 MHz) spectrum of **2b**



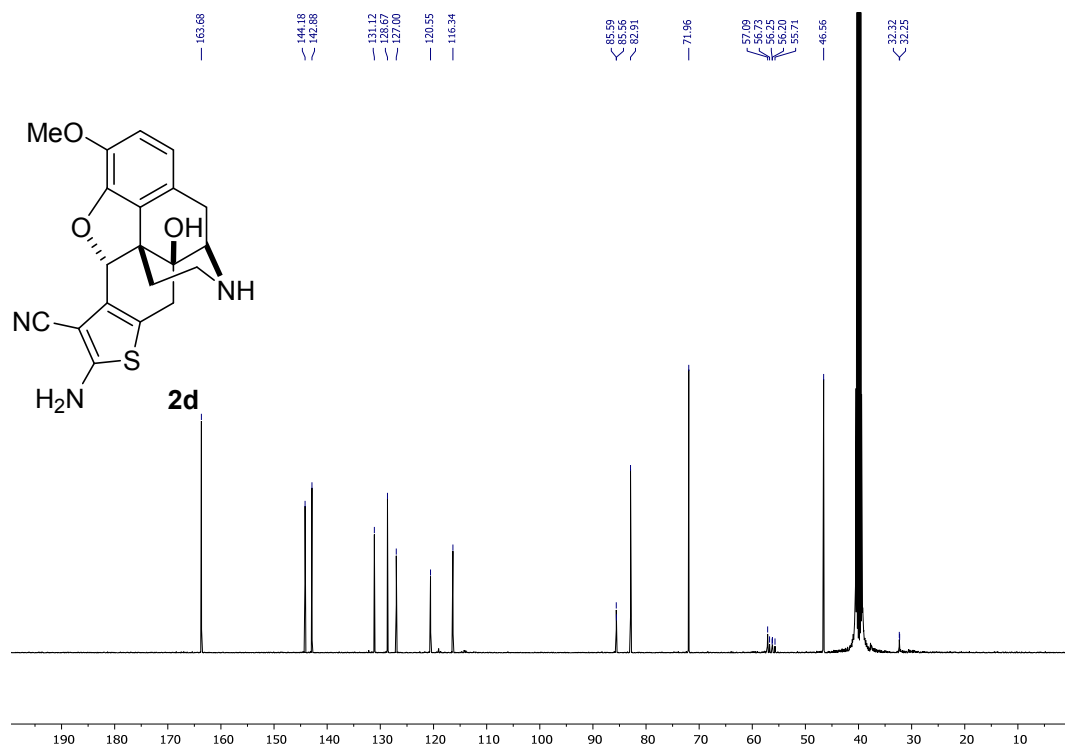
^1H NMR (DMSO- d_6 , 500 MHz) spectrum of **2c**



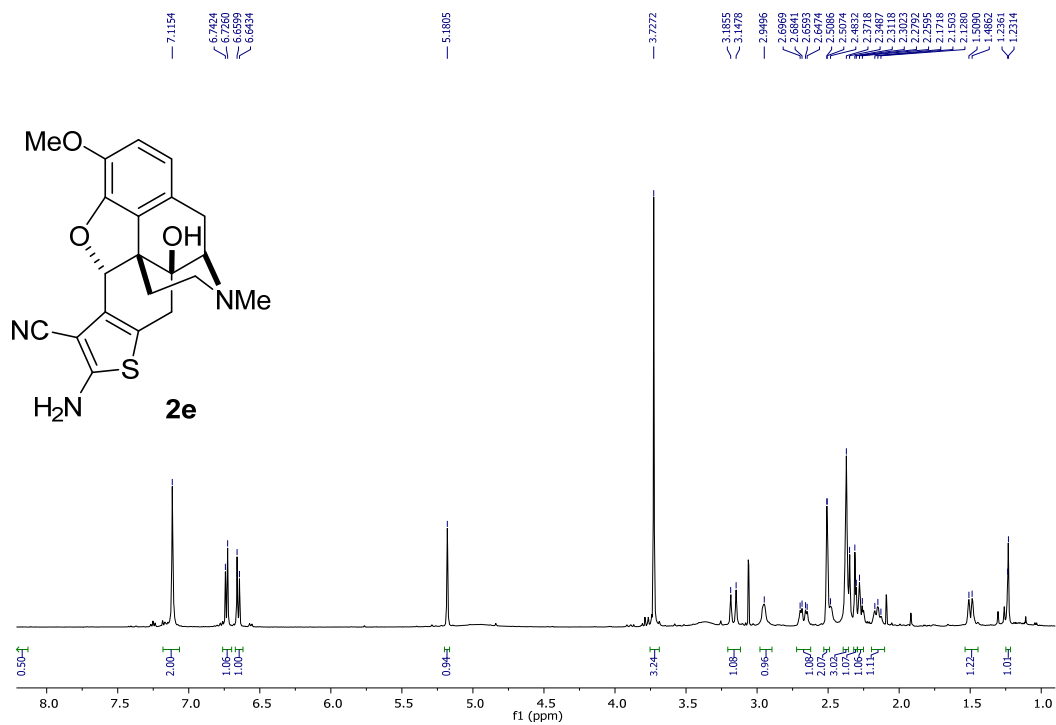
^{13}C NMR (DMSO- d_6 , 500 MHz) spectrum of **2c**



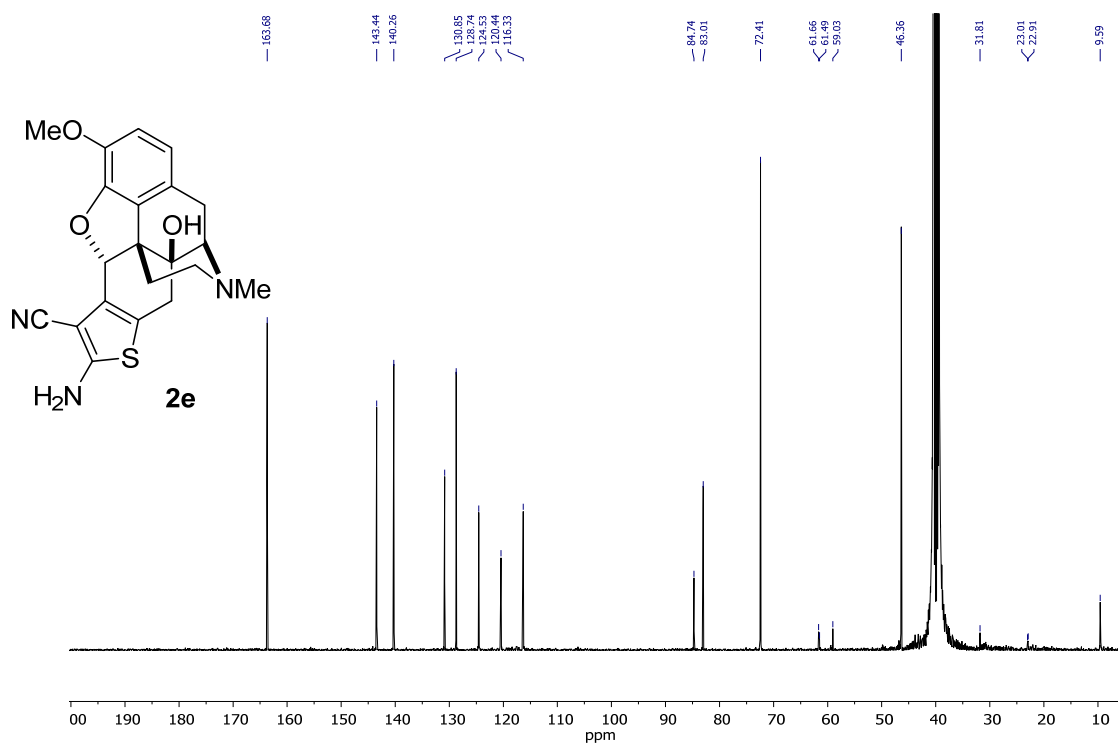
¹H NMR (DMSO-d₆, 500 MHz) spectrum of **2d**



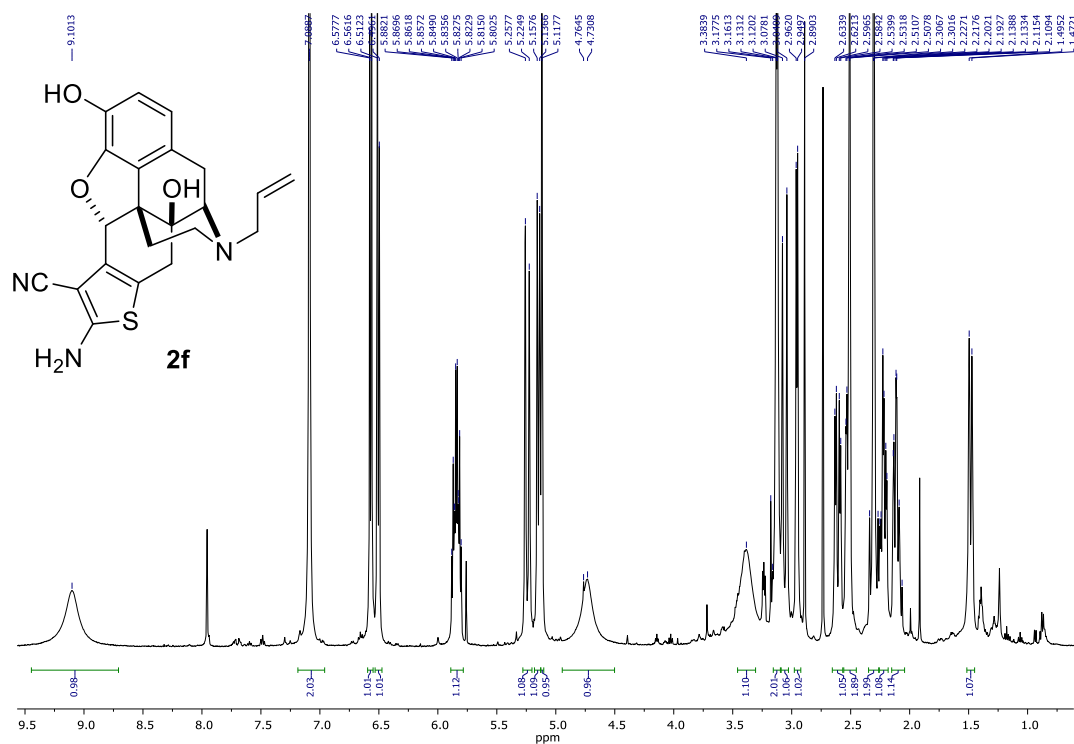
¹³C NMR (DMSO-d₆, 500 MHz) spectrum of **2d**



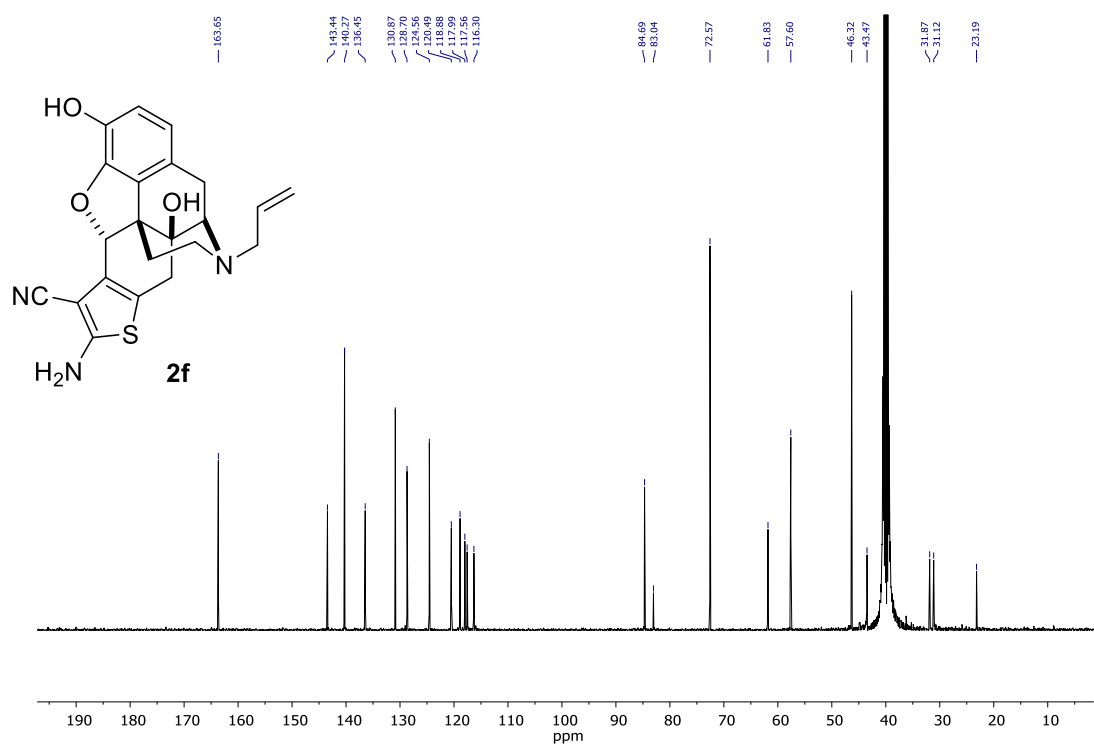
¹H NMR (DMSO-d₆, 500 MHz) spectrum of **2e**



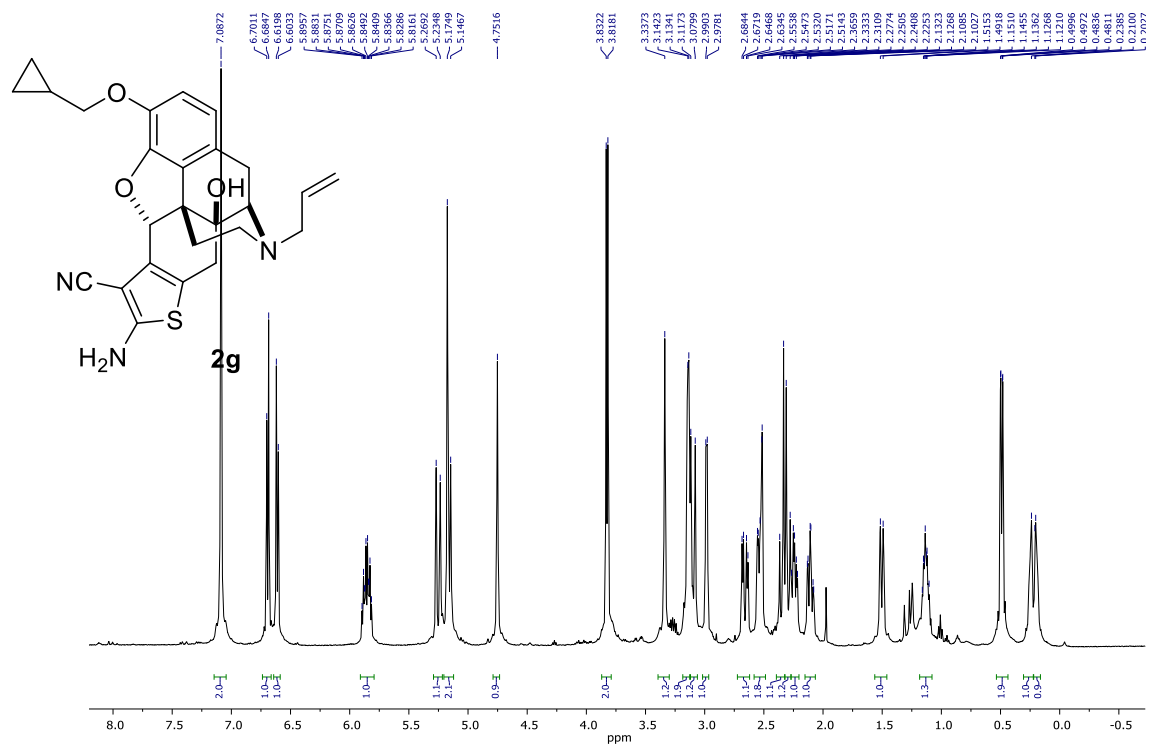
¹³C NMR (DMSO-d₆, 500 MHz) spectrum of **2e**



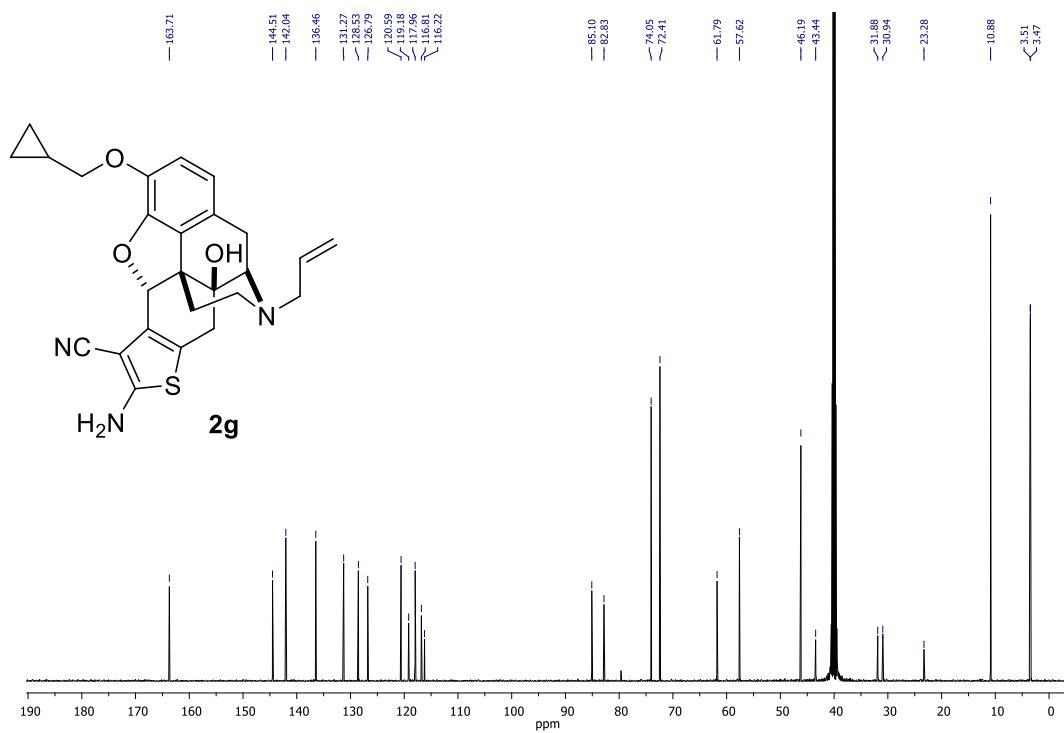
¹H NMR (DMSO-d₆, 500 MHz) spectrum of **2f**



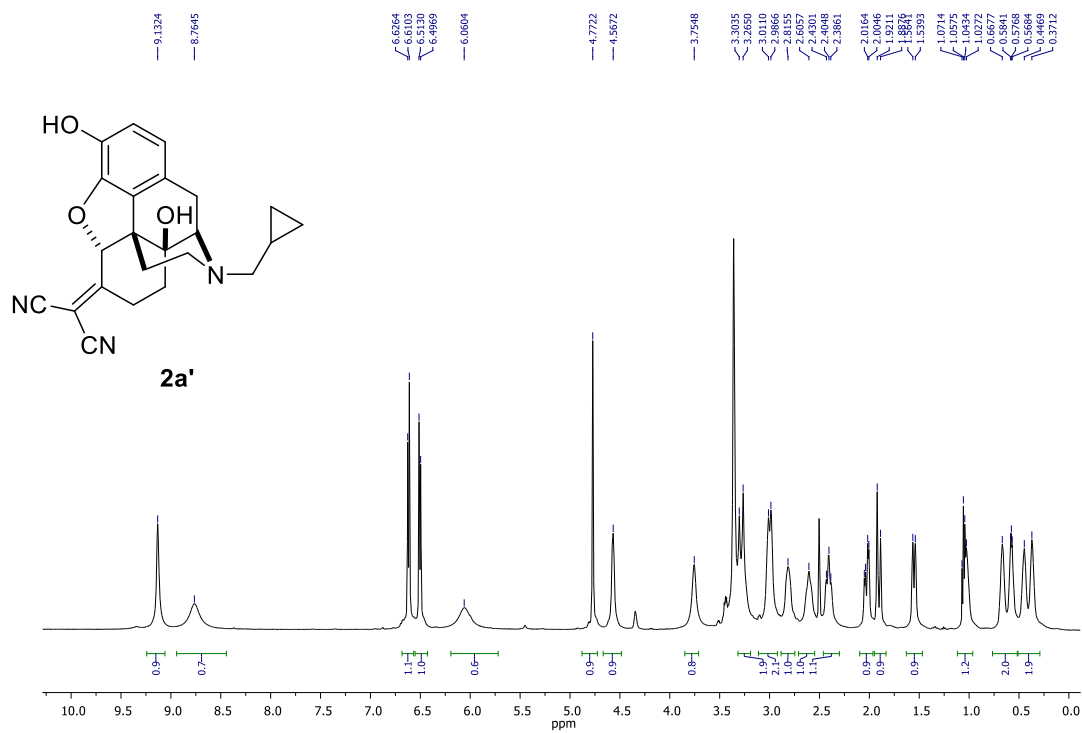
¹³C NMR (DMSO-d₆, 500 MHz) spectrum of **2f**



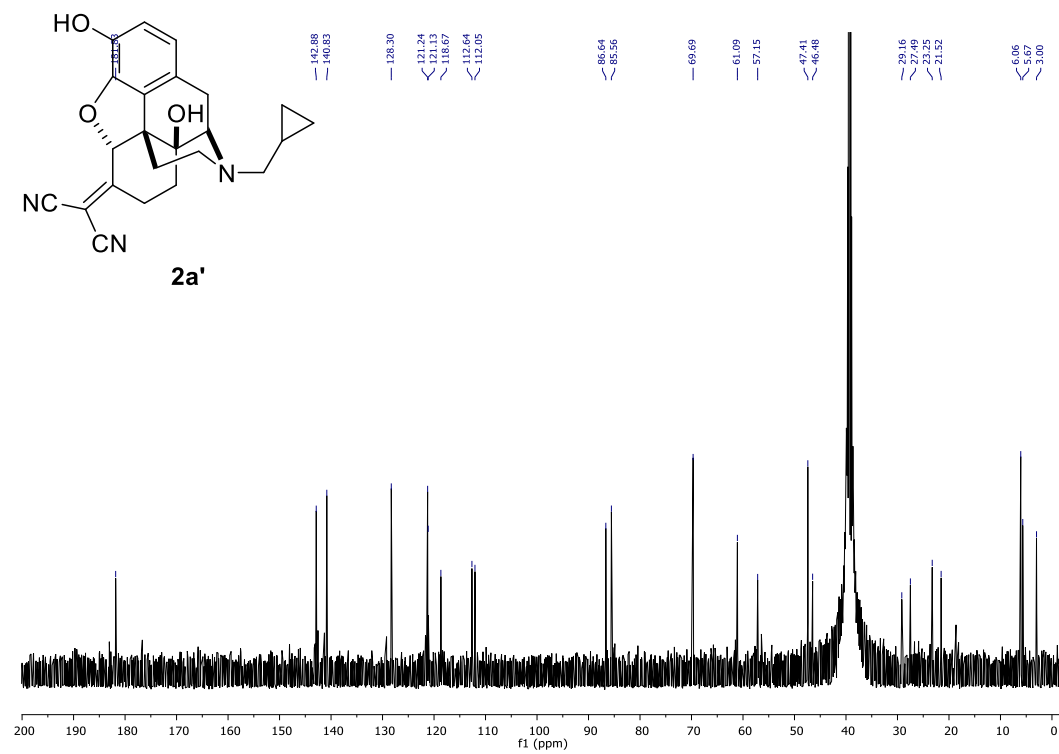
¹H NMR (DMSO-d₆, 500 MHz) spectrum of **2g**



¹³C NMR (DMSO-d₆, 500 MHz) spectrum of **2g**



^1H NMR (DMSO- d_6 , 500 MHz) spectrum of **2a'**



^{13}C NMR (DMSO- d_6 , 500 MHz) spectrum of **2a'**