Supporting Information

Org. Commun. 13:4 (2020) 175-183

Facile microwave synthesis of a novel phenothiazine derivative and its cytotoxic activity

Cenk A Andac[1,2*]

[1] *Department of Medicinal Chemistry, School of Pharmacy, Istinye University, 34010, Istanbul, Türkiye*

[2]*Department of Medical Pharmacology, School of Medicine, Ankara Yıldırım Beyazıt University, 06800, Ankara, Türkiye*

Table of Contents **Page**

Figure S1: ESI^+-LCMS (*m/z* %) spectrum of compound **3** 2
Figure S2: ^{1}H-NMR (400 MHz, $CDCl_3$) spectrum of compound **3** 3
Figure S3: Expanded ^{1}H-NMR (400 MHz, $CDCl_3$) spectrum of compound **3**. 4
Figure S4: FT-IR spectrum of compound **3** 5
Figure S5: Comparison of 1H-NMR (400 MHz, $CDCl_3$) spectra of compound 3 obtained by microwave synthesis (top spectrum) with two unknown products spot-1 (Rf=0.26) and spot-2 (Rf=0.15) named after a TLC determination, both synthesized in presence of NaH. 6
Figure S6: ESI^+-LCMS (*m/z* %) spectrum of compound **6** 7
Figure S7: ^{1}H-NMR (400 MHz, $CDCl_3$) spectrum of compound **6** 8
Figure S8: ROESY-NMR (400 MHz, $CDCl_3$) Spectrum of compound **6** 9
Figure S9: Comparison of ^{1}H-NMR (400 MHz, $CDCl_3$) spectra of compound **6** synthesized by microwave irradiation (top spectrum), and using $NaNH_2$ as base (bottom spectrum). 10

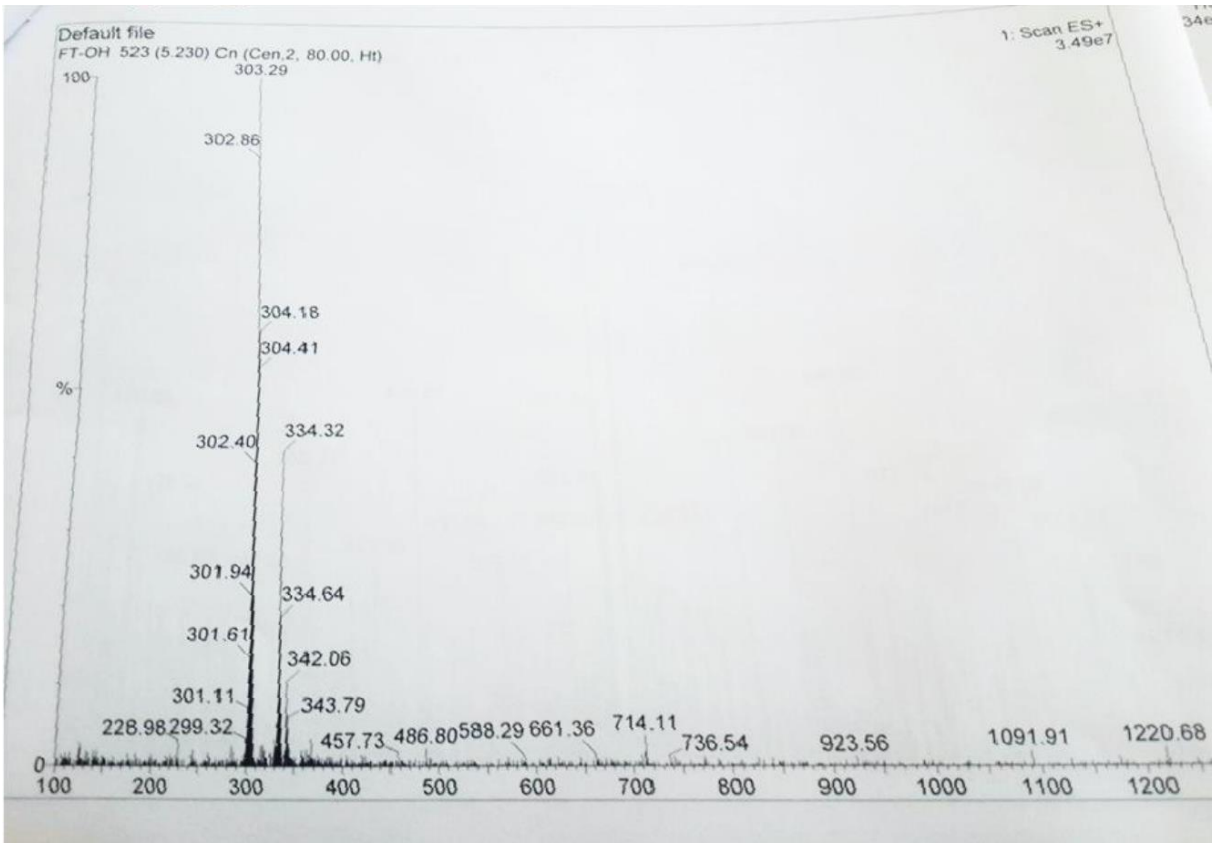

Figure S1: ESI^+-LCMS (*m/z* %) spectrum of compound **3**

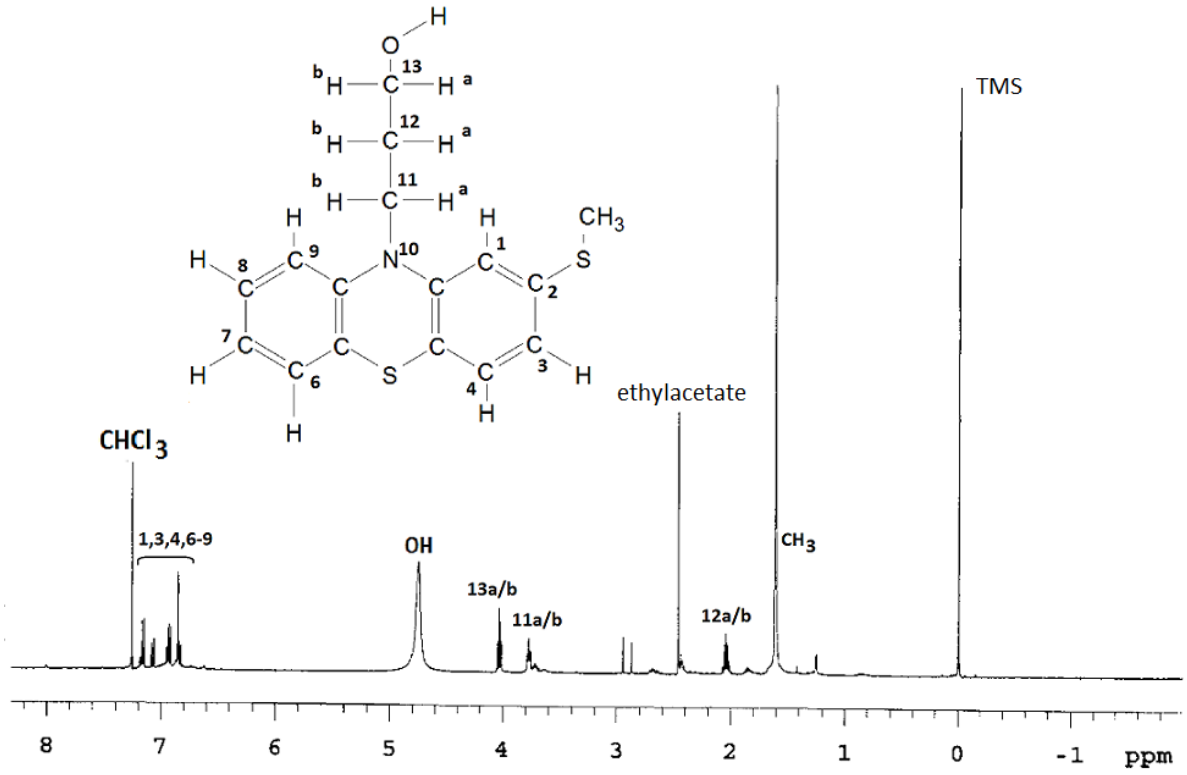

Figure S2: ^{1}H-NMR (400 MHz, $CDCl_3$) spectrum of compound **3**

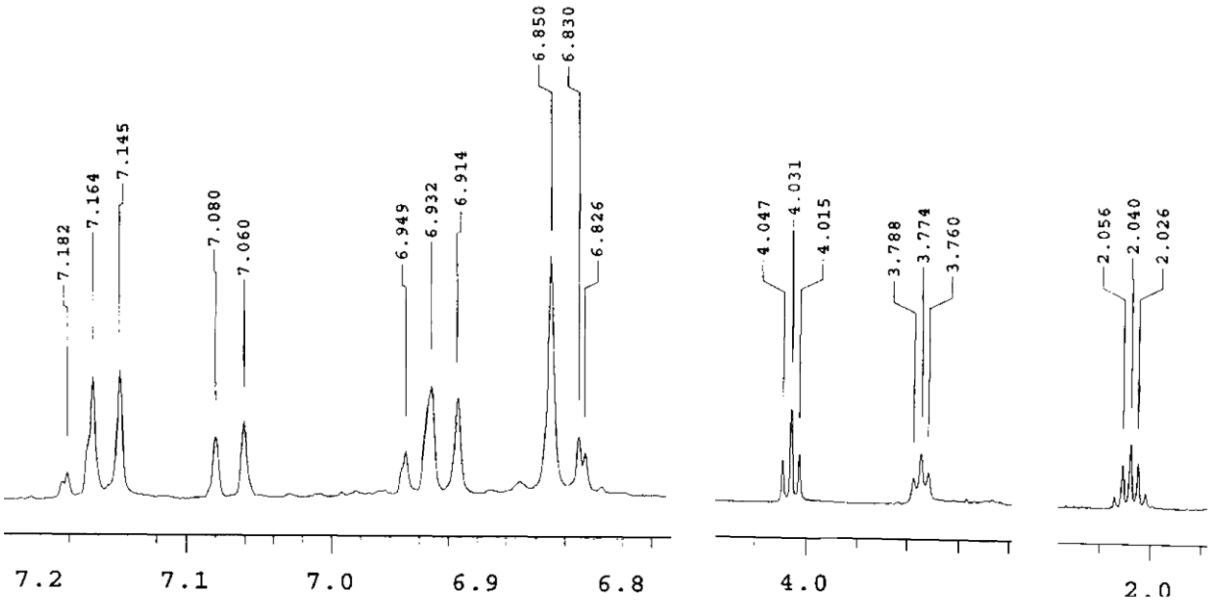

Figure S3: Expanded ^{1}H-NMR (400 MHz, $CDCl_3$) spectrum of compound **3**

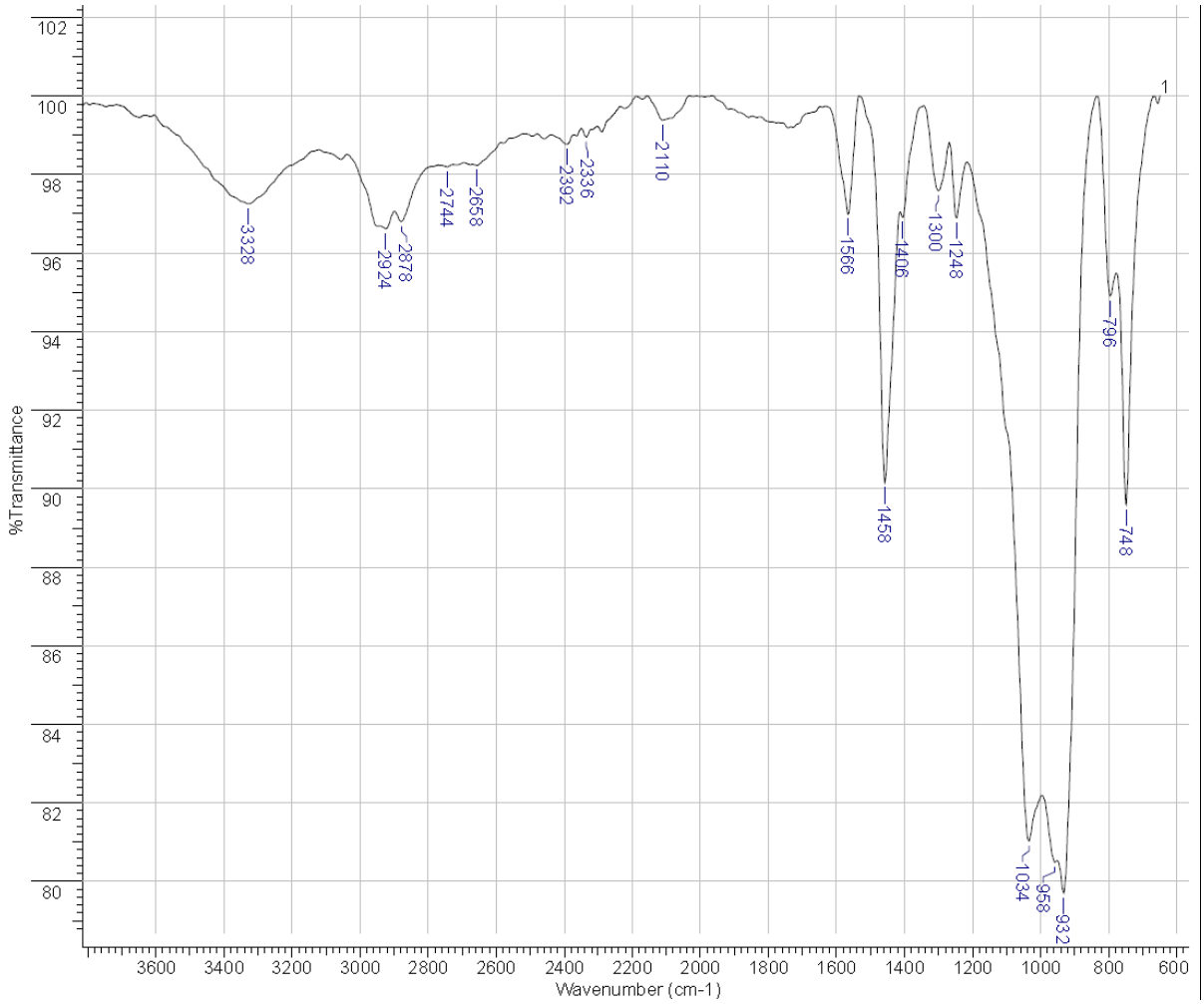

Figure S4: FT-IR spectrum of compound **3**

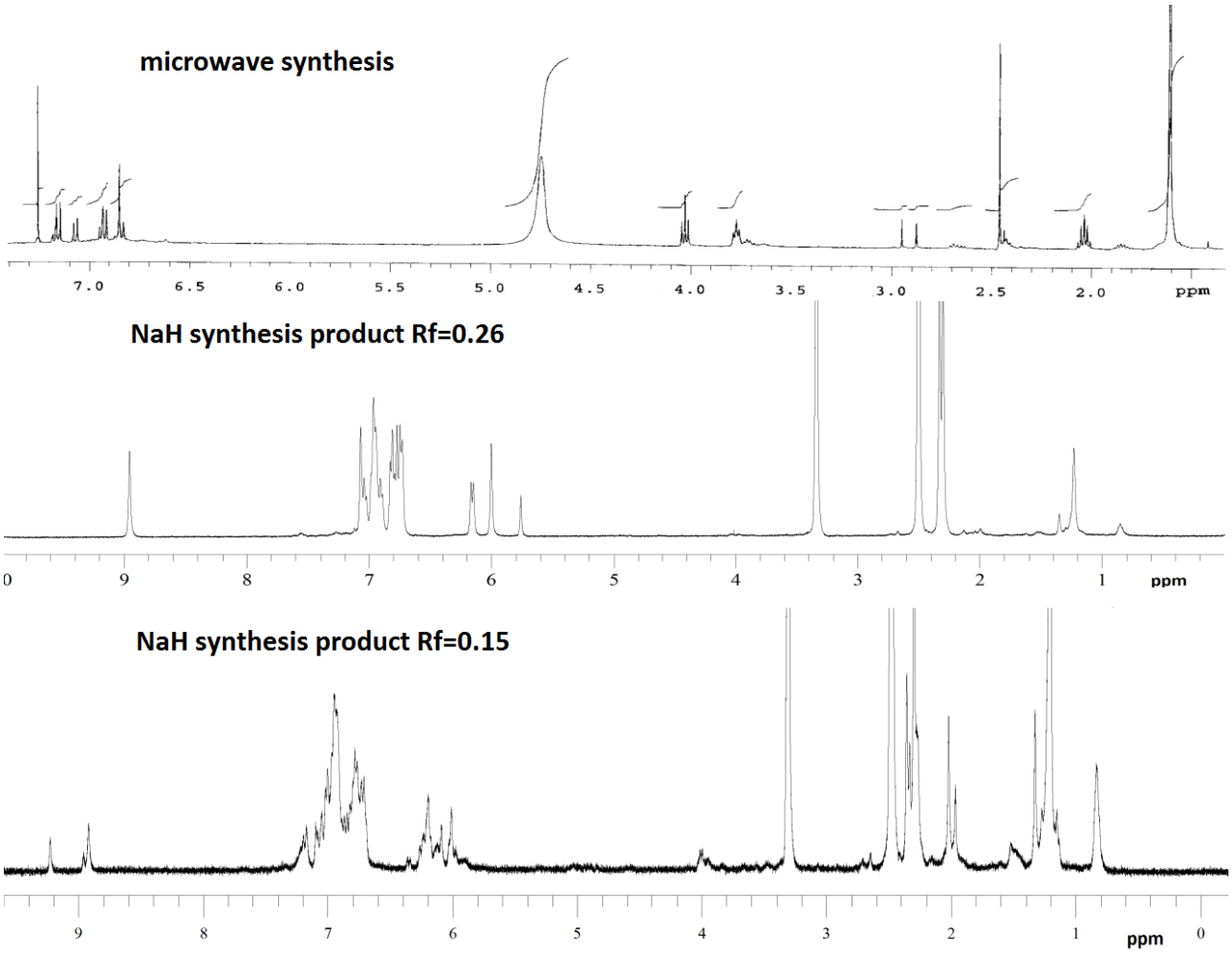

Figure S5. Comparison of 1H-NMR (400 MHz, $CDCl_3$) spectra of compound 3 obtained by microwave synthesis (top spectrum) with two unknown products spot-1 (Rf=0.26) and spot-2 (Rf=0.15) named after a TLC determination, both synthesized in presence of NaH.

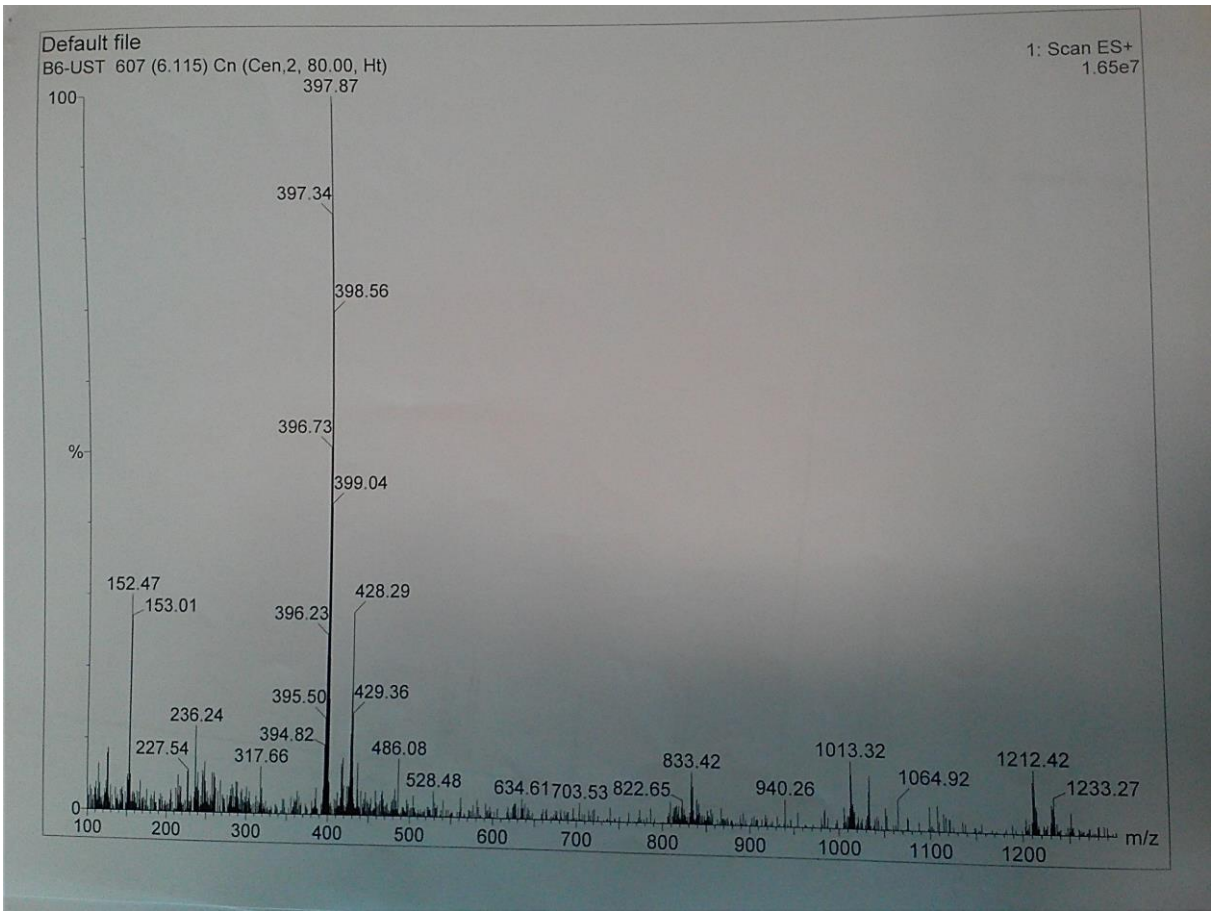

Figure S6: ESI^{+}-LCMS (*m/z* %) spectrum of compound **6**

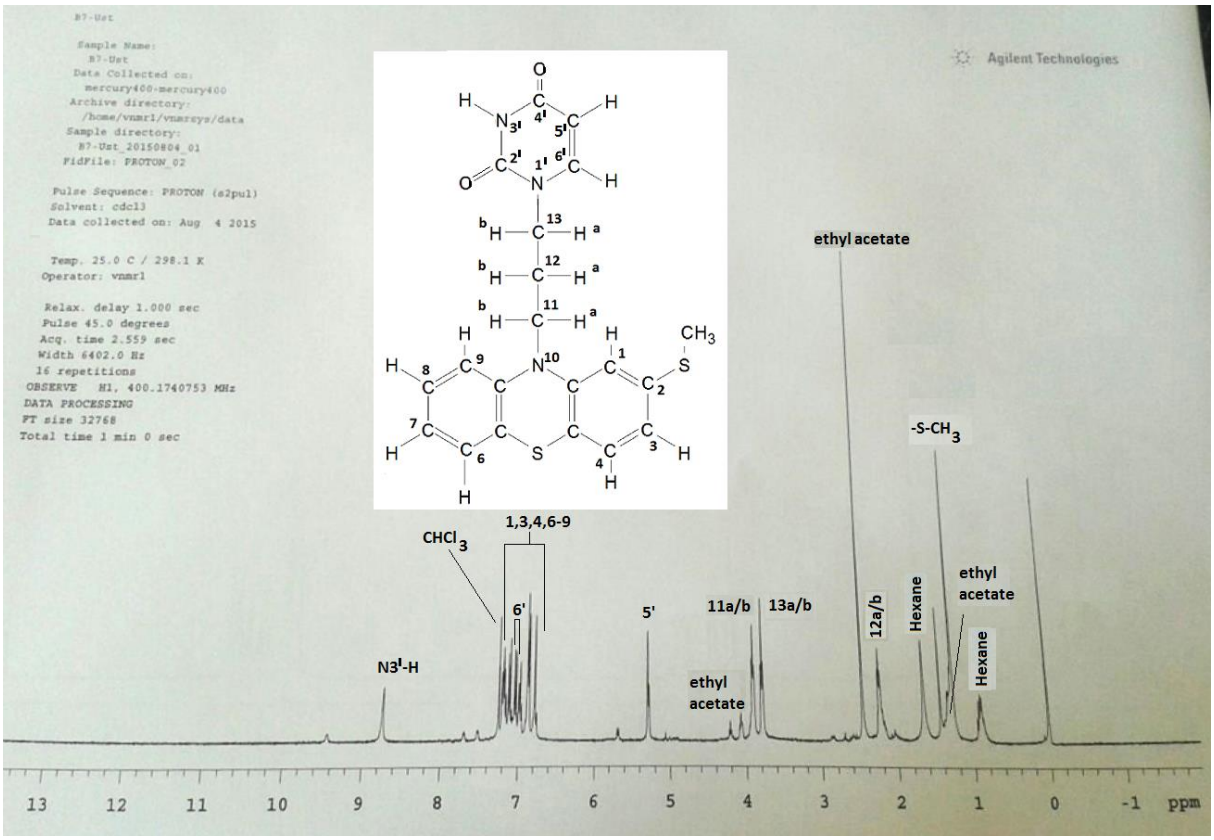

Figure S7: ^{1}H-NMR (400 MHz, $CDCl_3$) spectrum of compound **6**

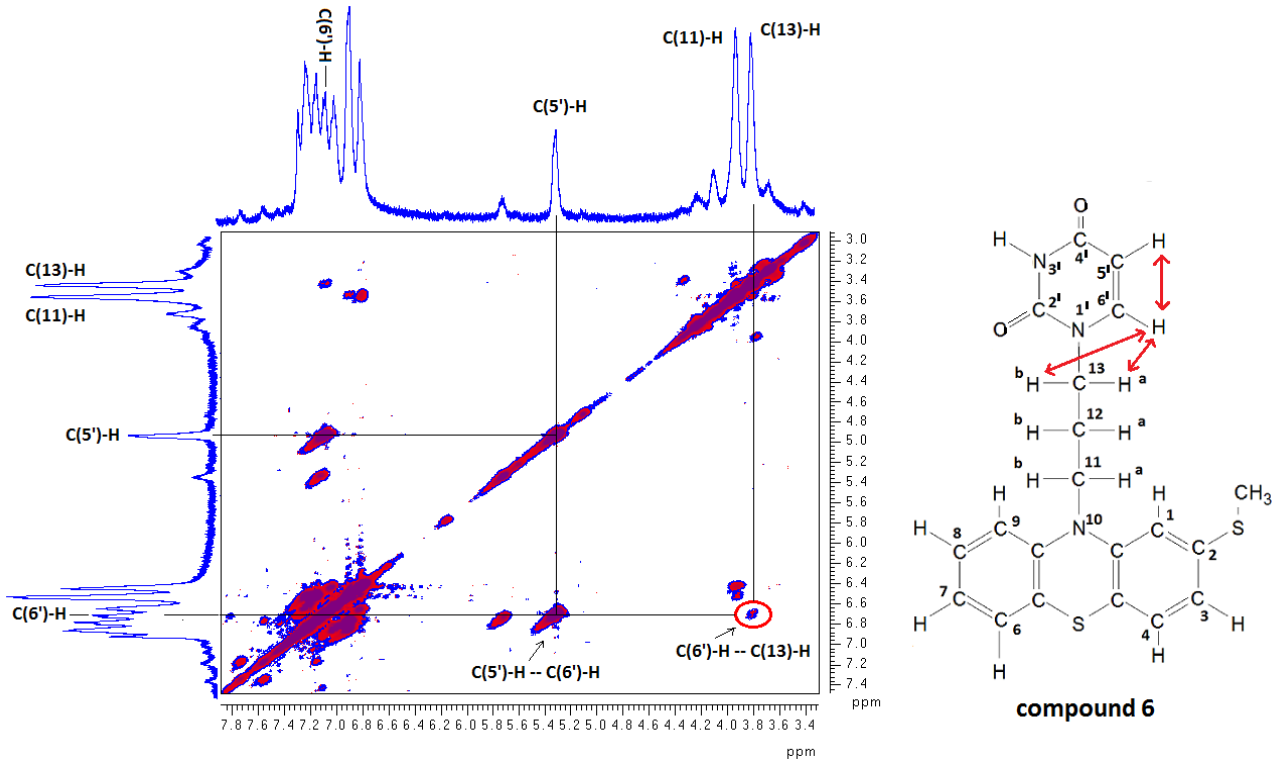

Figure S8: ROESY-NMR (400 MHz, $CDCl_3$) spectrum of **6**

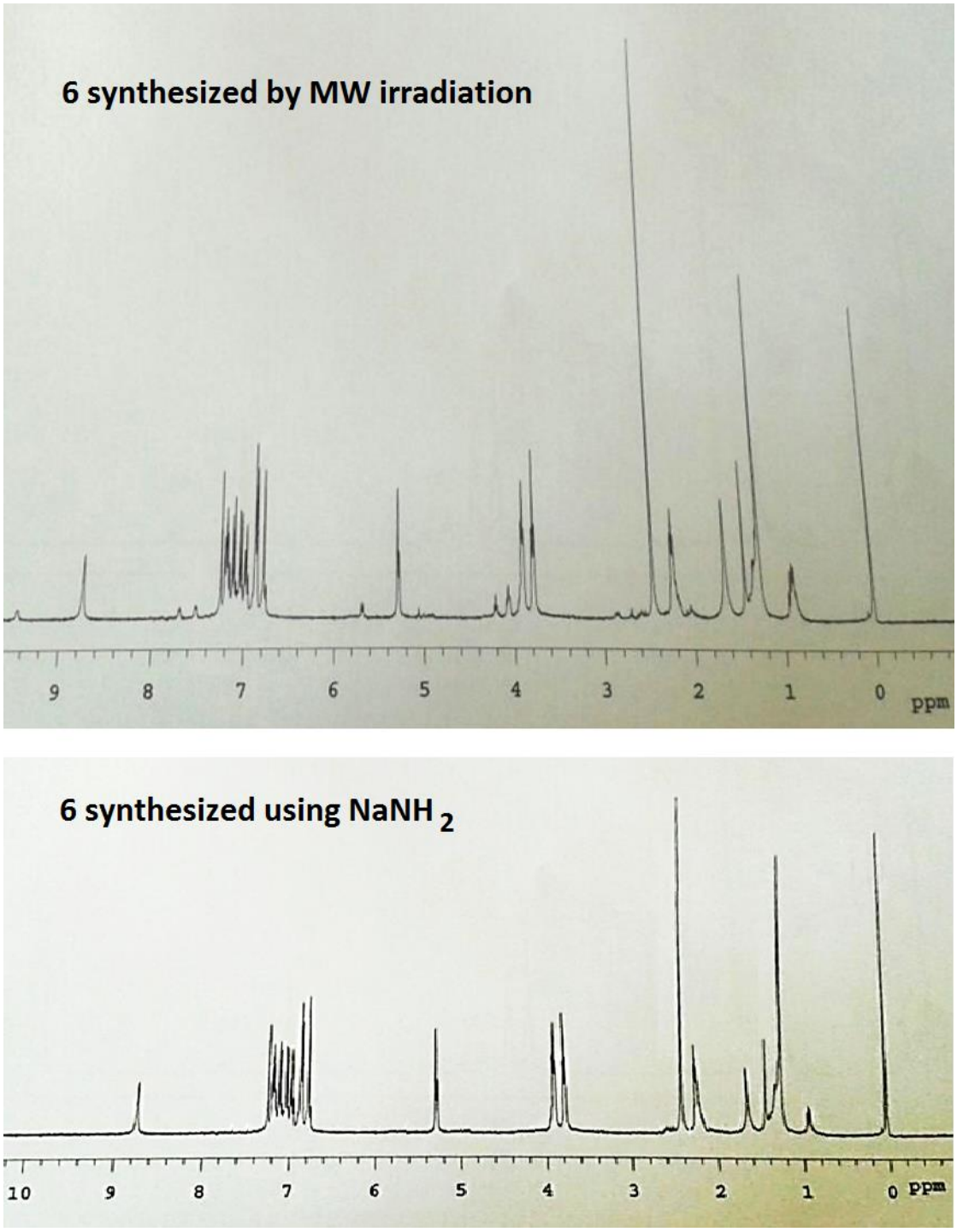

Figure S8: Comparison of ^{1}H-NMR (400 MHz, $CDCl_3$) spectra of compound **6** synthesized by microwave irradiation (top spectrum), and using $NaNH_2$ as base (bottom spectrum).