

**Benderamide A, a Cyclic Depsipeptide from a Singapore Collection of Marine Cyanobacterium
Lyngbya sp.**

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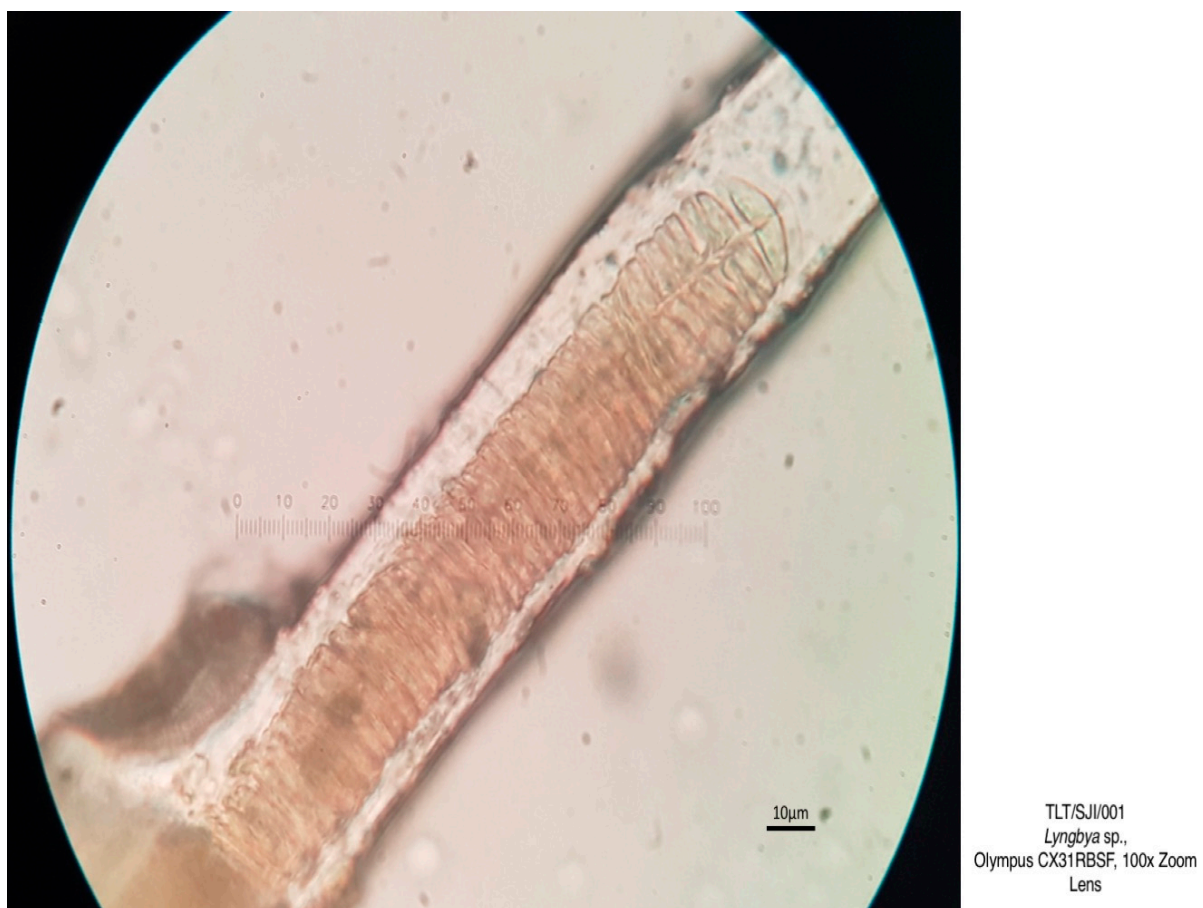


Figure S1. Morphology of TLT/SJI/001 under microscope (viewed under 100 × zoom lens)

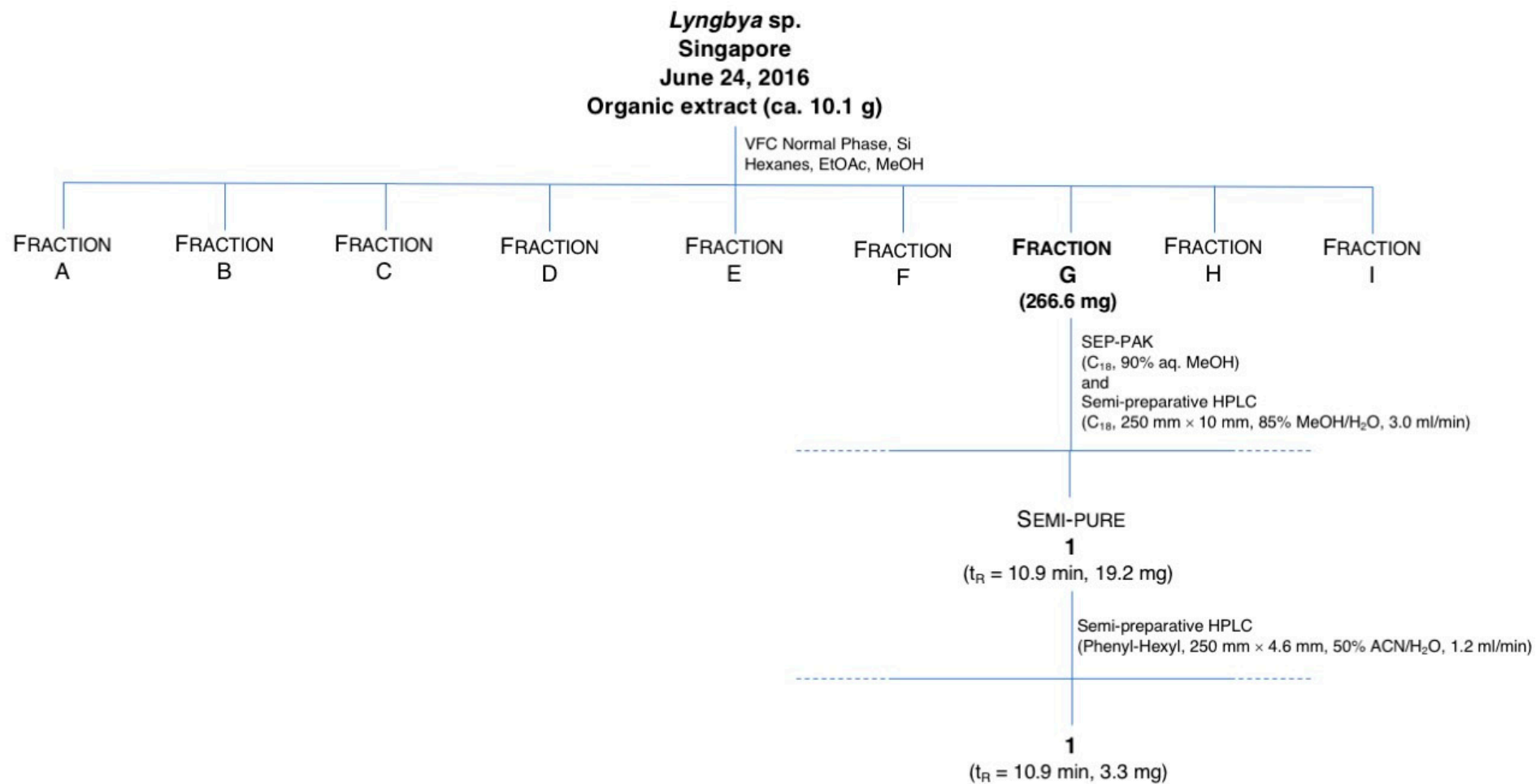


Figure S2. Flow chart of isolation and purification of benderamide A (**1**)

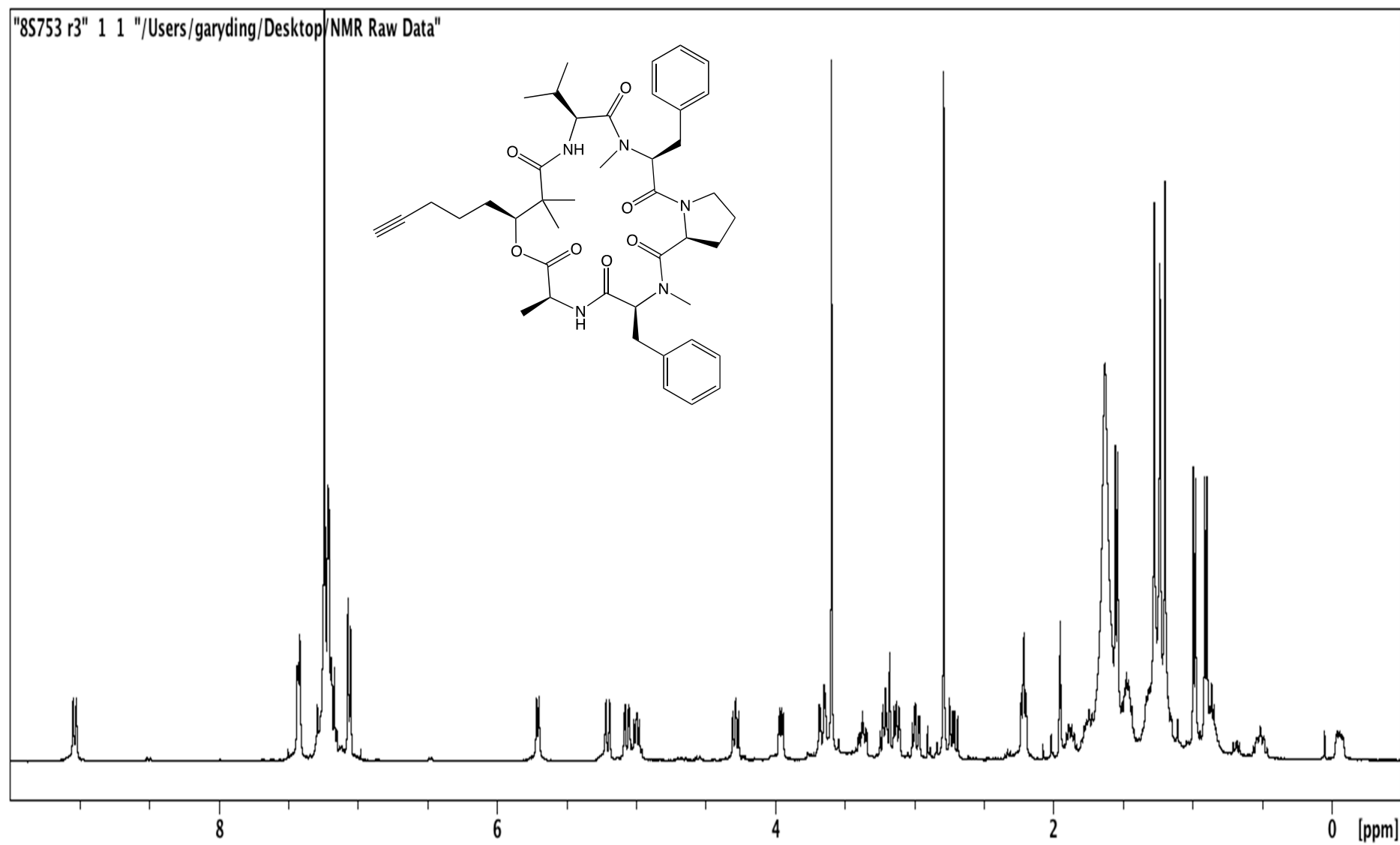


Figure S3. ^1H spectrum of benderamide A (1) recorded in CDCl_3 at 400 MHz

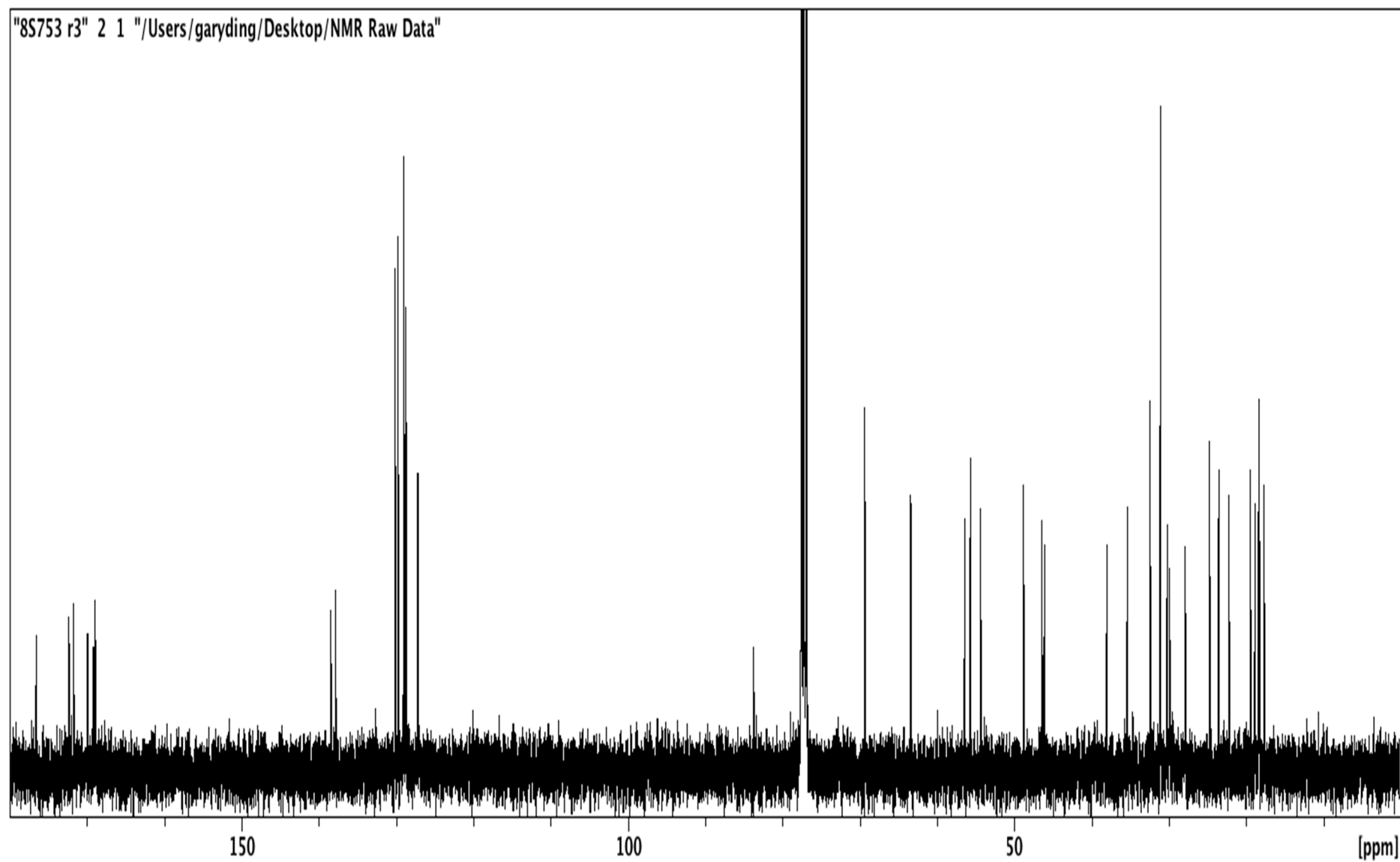


Figure S4. ^{13}C spectrum of benderamide A (**1**) recorded in CDCl_3 at 400 MHz

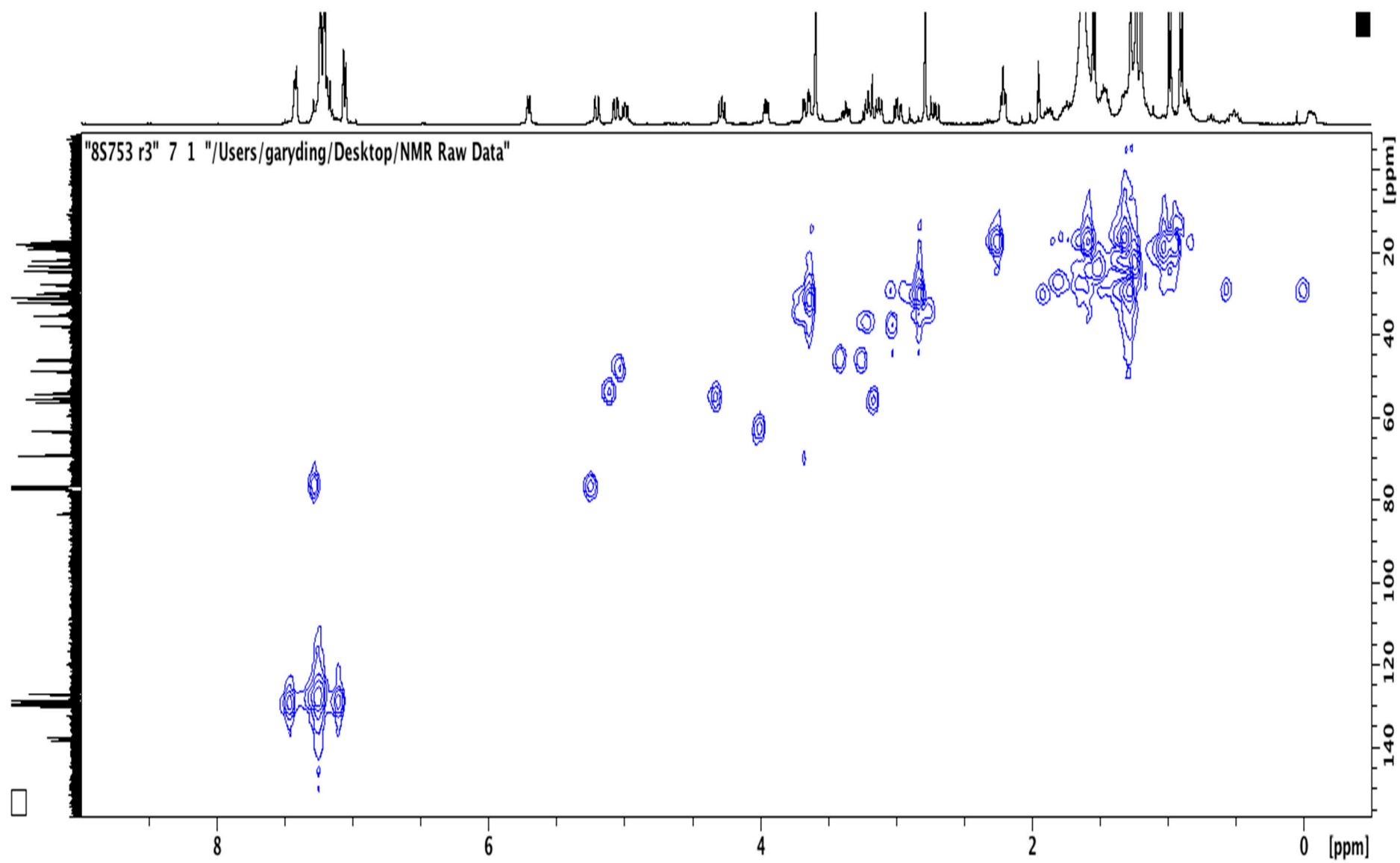


Figure S6. HSQC spectrum of benderamide A (**1**) recorded in CDCl₃ at 400 MHz

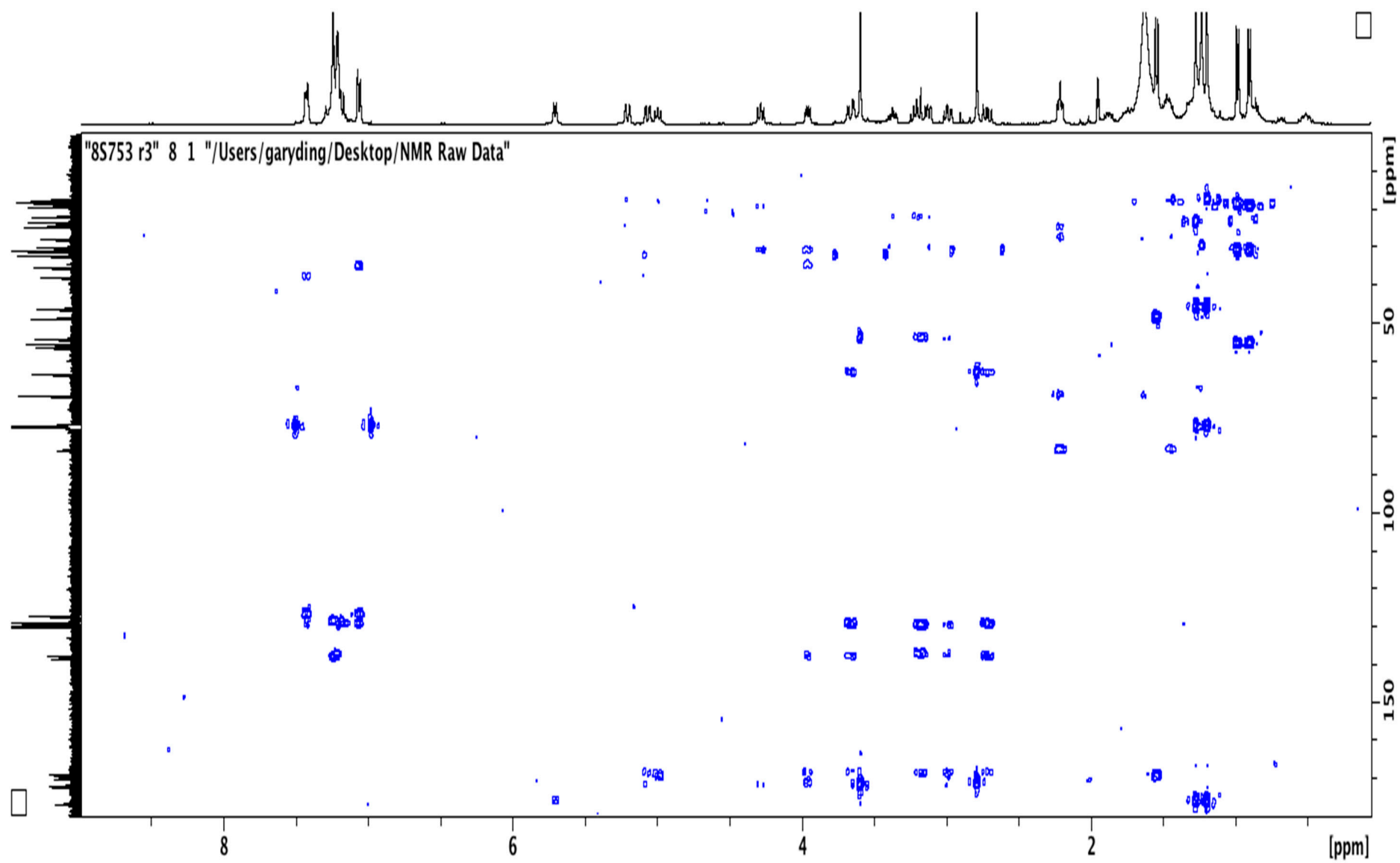


Figure S7. HMBC spectrum of benderamide A (1) recorded in CDCl₃ at 400 MHz

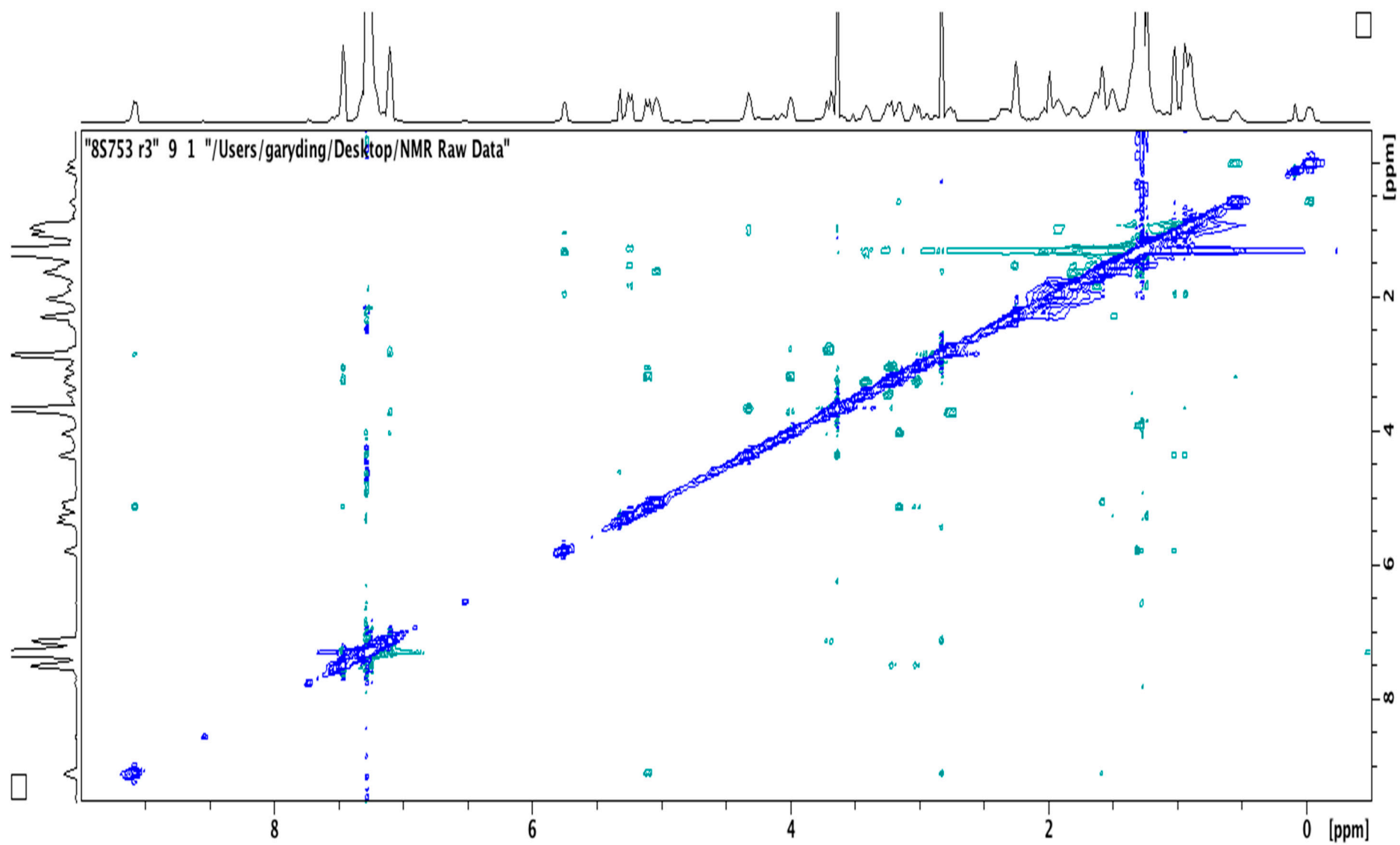


Figure S8. NOESY spectrum of benderamide A (**1**) recorded in CDCl₃ at 600 MHz

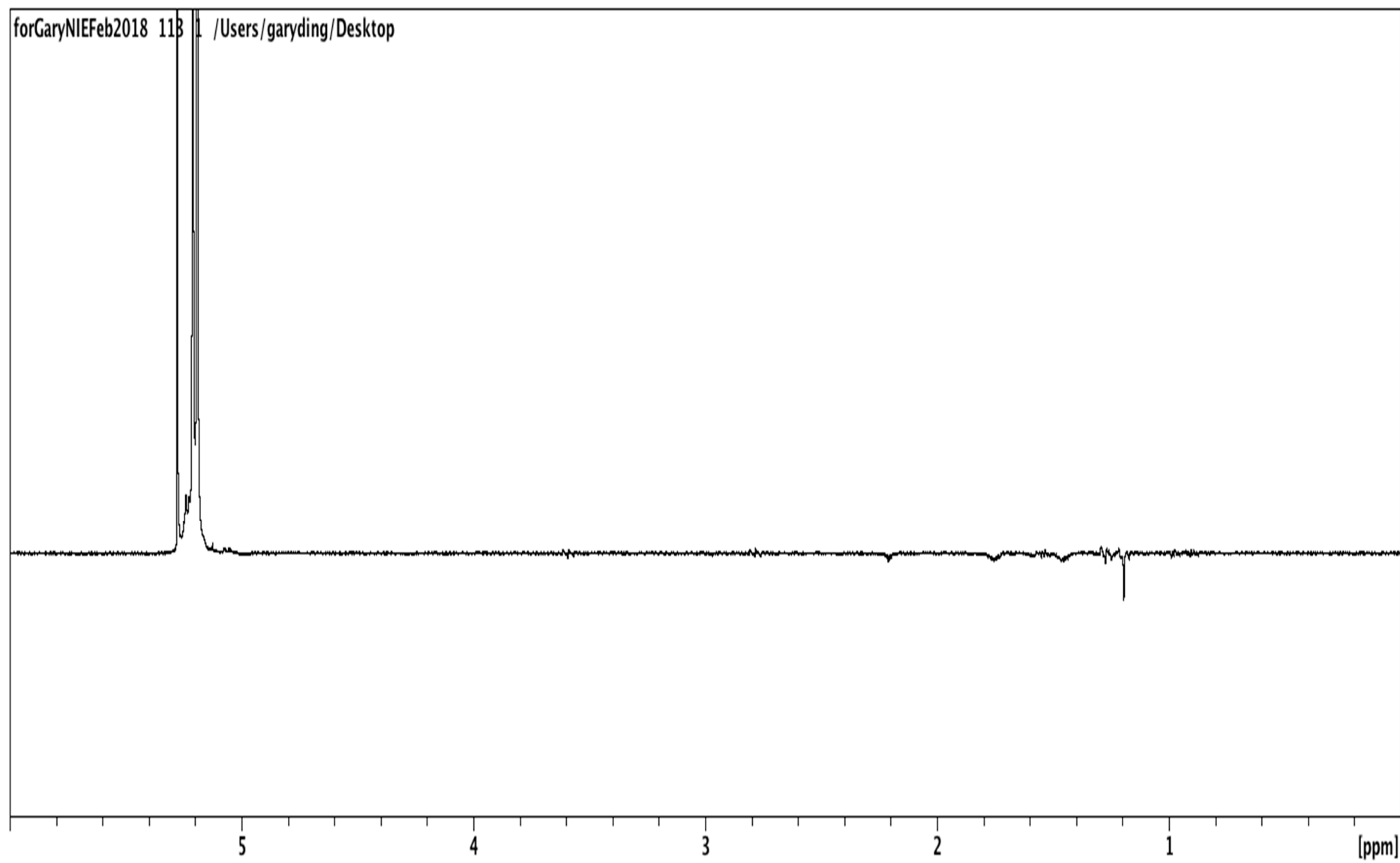
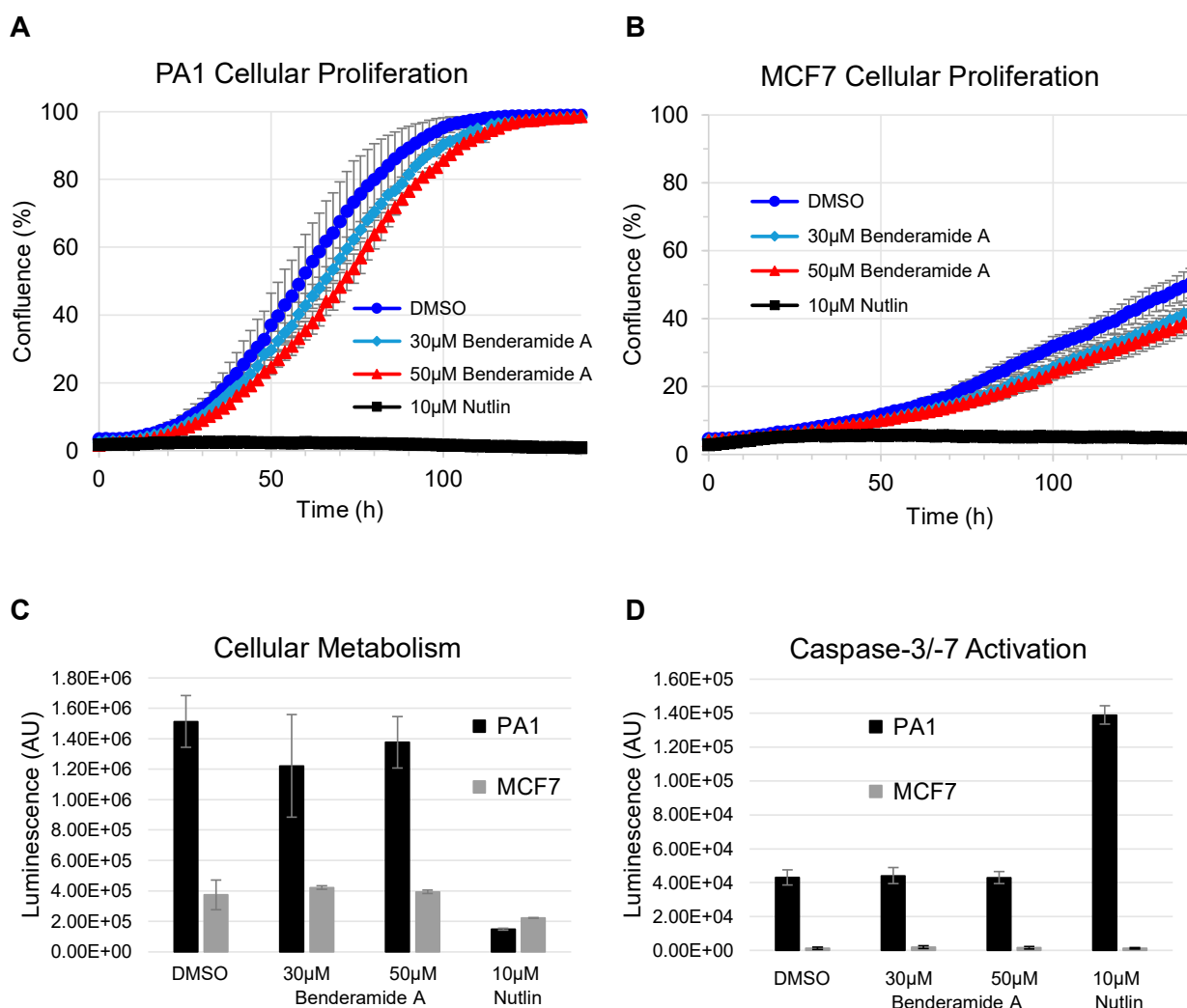


Figure S9. 1D selective NOE (irradiation at 5.20 ppm) spectrum of benderamide A (**1**) recorded in CDCl₃ at 600 MHz



Proliferation as determined by percent confluence of human ovarian PAI (Panel A) or breast MCF7 (Panel B) cells was measured using IncuCyte for 140 h in the presence of DMSO (dark blue circles), 30 μ M Benderamide A (light blue diamonds), 50 μ M Benderamide A (red triangles) or 10 μ M Nutlin (black squares). Cell Titre Glo metabolism (viability) assay (Panel C) or Caspase-3/-7 (Panel D) was measured for both PA1 (black bars) or MCF7 (grey bars) 72 h following the indicated treatment. Each data point is the average over three wells for each condition and the data presented is representative of triplicate experiments. Error bars represent standard error.

Figure S10. Cellular proliferation, metabolism and caspase determination