SUPPORTING INFORMATION

Actinophyllic Acid, a Potent Indole Alkaloid Inhibitor of the Coupled Enzyme Assay Carboxypeptidase U/Hippuricase from the Leaves of *Alstonia actinophylla* (Apocynaceae)

Anthony R. Carroll,^{†} Edward Hyde,[†] Jill Smith,[†] Ronald J. Quinn,[†] Gordon Guymmer[‡]
and Paul I. Forster[‡]*

Natural Product Discovery, Eskitis Institute, Griffith University, Brisbane, Australia,
4111 and Queensland Herbarium, Brisbane Botanic Gardens, Toowong, Queensland,
Australia, 4066.

List of Supporting Information

Contents	Pages
Figure S1. ¹ H NMR (600 MHz) Spectrum of Actinophyllic Acid (1) in DMSO- <i>d</i> ₆	S2
Figure S2. ¹³ C NMR (600 MHz) Spectrum of Actinophyllic Acid (1) in DMSO- <i>d</i> ₆	S3
Figure S3. gCOSY Spectrum of Actinophyllic Acid (1) in DMSO- <i>d</i> ₆	S4
Figure S4. gHSQC Spectrum of Actinophyllic Acid (1) in DMSO- <i>d</i> ₆	S5
Figure S4. gHMBC Spectrum of Actinophyllic Acid (1) in DMSO- <i>d</i> ₆	S6
General Procedures	S7

Figure S1. ¹H NMR (600 MHz) Spectrum of Actinophyllic Acid (1) in DMSO-*d*₆

Figure S2. ^{13}C NMR (600 MHz) Spectrum of Actinophyllic Acid (1) in $\text{DMSO-}d_6$

Figure S3. gCOSY Spectrum of Actinophyllic Acid (1) in DMSO- d_6

Figure S4. gHSQC Spectrum of Actinophyllic Acid (1) in $\text{DMSO-}d_6$

Figure S5. gHMBC Spectrum of Actinophyllic Acid (1) in DMSO- d_6

General Experimental Procedures. NMR spectra were recorded at 30°C at 599.926 MHz for ^1H and 149.98 MHz for ^{13}C . The ^1H and ^{13}C chemical shifts were referenced to the proto-deutero solvent peak (d_6 -DMSO) at δ 2.49 and 39.5 ppm, respectively. Alltech Davisil 30-40 μm 60 Å C18 was used for MPLC work. Pharmacia Sephadex LH20 was used for gel permeation chromatography. Dowex WX8-400 strong cation exchange resin and Dowex IX8-400 strong anion exchange resin were used for ion exchange chromatography. A YMC 5 μm 120 Å aqueous C18 HPLC column, (10mm x 150 mm) was used for HPLC semipreparative separations. All solvents used for HPLC, UV, $[\alpha]_D$ and MS were Merck Omnisolv grade, and the H_2O used was Millipore Milli-Q PF filtered. Standard parameters were used for the 2D NMR spectra obtained, which included gradient COSY, HSQC ($^1J_{\text{CH}} = 140 \text{ Hz}$) and HMBC ($^1J_{\text{CH}} = 8.3 \text{ Hz}$)