Supporting Information to:

Silyamandin, a New Flavonolignan Isolated from Milk Thistle Tinctures

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LC/DAD Profiling of Silymarin

Milk thistle tincture (1 mL) prepared at Naturally Nova Scotia was fractionated on a 1-mL C$_{18}$ Strata-X column (Phenomenex; Torrence, CA, USA) that had been prewashed with 80% EtOH and then H$_2$O. The column was eluted with H$_2$O (1 mL) and the silymarin fraction was eluted with 80% EtOH (2 mL). The ethanolic elute was filtered using a 0.45 μm Acrodisc syringe filter (VWR; Mississauga, Canada) and chromatographed on a Waters YMC$^\text{TM}$ Pack ODS-A column (4.6 · 150 mm, 5 μm) using 0.1% TFA (A) and 0.1% TFA in MeCN (B). The column was eluted isocratically with 85% A:15% B for 5 min, followed by a linear gradient to 68.4% A:31.6% B over 12 min and then 100% B for 4 min.
Fig. 1S The proton spectrum for compound 1 (500 MHz, CD$_3$OD).
Fig. 2S. The carbon spectrum for compound 1 (500 MHz, CD3OD).
Fig. 3S. The $^1$H-$^1$C correlations for compound 1 (500 MHz, CD$_3$OD).
Fig. 4S: The long-range $^1$H-$^1$C correlations for compound 1 (500 MHz, CD$_3$OD).
Fig. 5S The proton spectrum for compound 2 (500 MHz, CD3OD).
Fig. 6S  The $^{1}H$-$^{13}C$ correlations for compound 2 (500 MHz, CD$_3$OD).
Fig. 7S The long-range $^1$H-$^{13}$C correlations for compound 2 (500 MHz, CD$_3$OD).