Steroidal Glycosides from *Dregea sinensis* var. *corrugata* Based on Chemical Screening with Liquid Chromatography-electrospray Ionization Tandem Mass Spectrometry (LC-ESI-MSⁿ)

Yun-Bao Liu, ¹ E-Nuo Su, ² Jian-Bei Li, [†] Jin-Lan Zhang, [†] Shi-Shan Yu, *, [†] Jing Qu, [†] Jing Liu, [†] Yong Li

Key Laboratory of Bioactive Substances and Resources Utilization of Chinese Herbal Medicine,
Ministry of Education & Institute of Materia Medica, Peking Union Medical College and Chinese
Academy of Medical Sciences, No. 1 Xian Nong Tan Street, Beijing 100050, PR China, Shenyang
Pharmaceutical University, Shenyang 110016, PR China

^{*} To whom correspondence should be addressed. E-mail: yushishan@imm.ac.cn; Tel.: +86-10-63165324; +86-10-60212125; Fax: +86-10-63017757

¹ Institute of Materia Medica, Peking Union Medical College and Chinese Academy of Medical Sciences

² Shenyang Pharmaceutical University

Support Information

Figure S1. ESI-MSⁿ spectra of new compound 1

Figure S2. ¹H NMR (pyridine-d₅ 500 M Hz) spectra of new compound 1

Figure S3. ¹³C NMR (pyridine-d₅ 125 M Hz) spectra of new compound 1

Figure S4. Dept spectra of new compound 1

Figure S5. COSY spectra of new compound 1

Figure S6. HMQC spectra of new compound 1

Figure S7. HMBC spectra of new compound 1

Figure S8. ESI-MSⁿ spectra of new compound 4

Figure S9. ¹H NMR (pyridine-d₅ 500 M Hz) spectra of new compound 4

Figure S10. ¹³C NMR (pyridine-d₅ 125 M Hz) spectra of new compound 4

Figure S11. Dept spectra of new compound 4

Figure S12. COSY spectra of new compound 4

Figure S13. HMQC spectra of new compound 4

Figure S14. HMBC spectra of new compound 4

Figure S15. ESI-MSⁿ spectra of new compound 7

Figure S16. ¹H NMR (pyridine-d₅ 500 M Hz) spectra of new compound 7

Figure S17. ¹³C NMR (pyridine-d₅ 125 M Hz) spectra of new compound 7

Figure S18. Dept spectra of new compound 7

Figure S19. COSY spectra of new compound 7

Figure S20. HMQC spectra of new compound 7

Figure S21. HMBC spectra of new compound 7

Figure S1. ESI-MSⁿ spectra of new compound 1

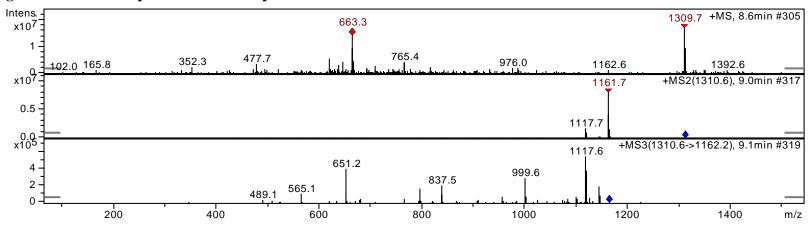


Figure S2. ¹H NMR (pyridine-d₅ 500 M Hz) spectra of new compound 1

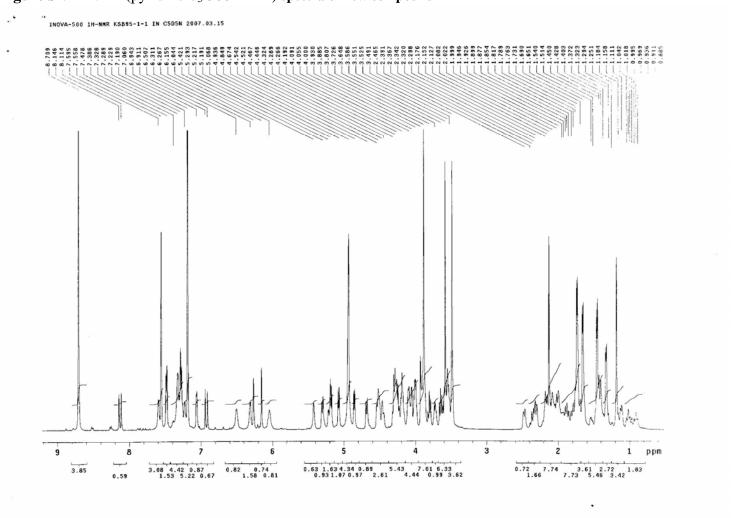


Figure S3. ¹³C NMR (pyridine-d₅ 500 M Hz) spectra of new compound 1

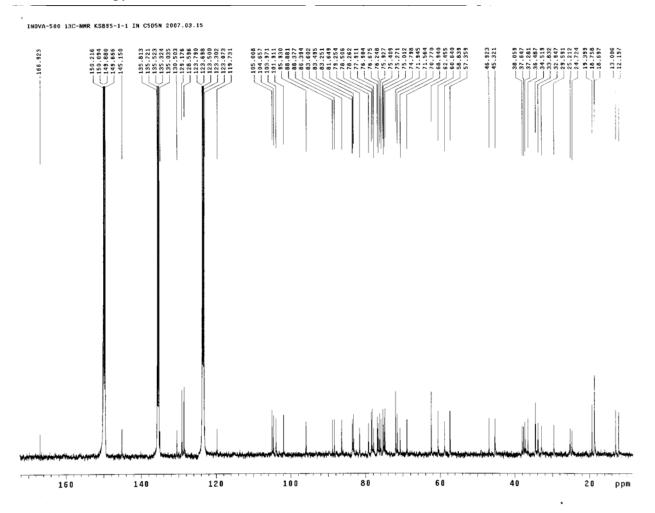
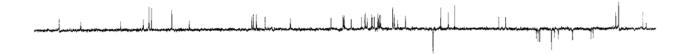


Figure S4. Dept spectra of new compound 1

INOVA-500 DEPT-NMR KSB95-1-1 IN C5D5N 2007.03.15





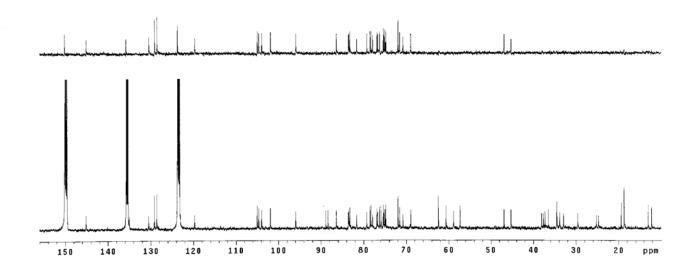


Figure S5. COSY spectra of new compound 1

Solvent: Pyridine Temp. 25.0 C / 258.1 K INOVA-500 "IMM-501"

Relax. delay 1.000 sec Aca, time 0.218 sec Aca, time 0.218 sec Vidth 4700.9 Hz 20 Width 4700.9 Hz 2 repetitions 256 increments DATA PROCESSING DATA PROCESSING Sine bell 0.028 sec FT 1047 BT 1058 Sec FT 1058 Sec

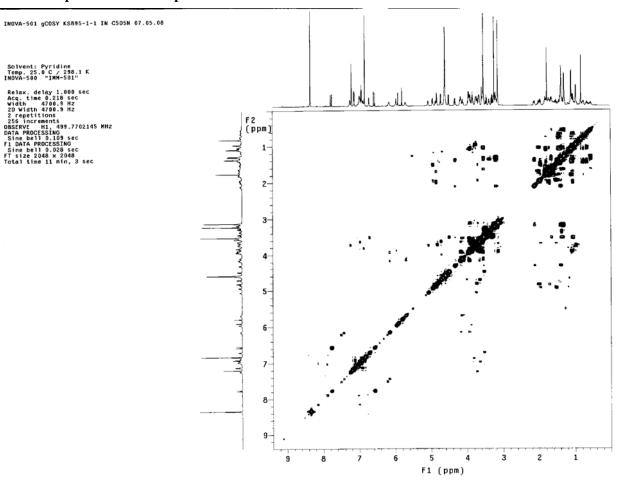


Figure S6. HMQC spectra of new compound 1

. INOVA-501 gHSQC KSB95-1-1 IN C5D5N 07.05.08

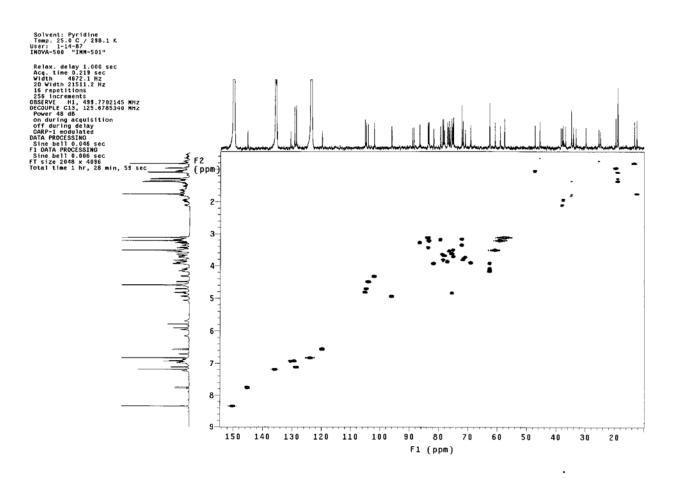


Figure S7. HMBC spectra of new compound 1

INOVA-501 gHMBC KS895-1-1 IN C5D5N 07.05.08

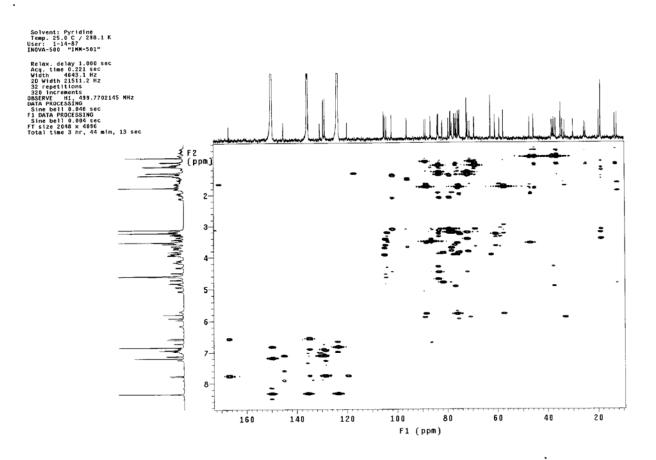


Figure S8. ESI-MSⁿ spectra of new compound 4

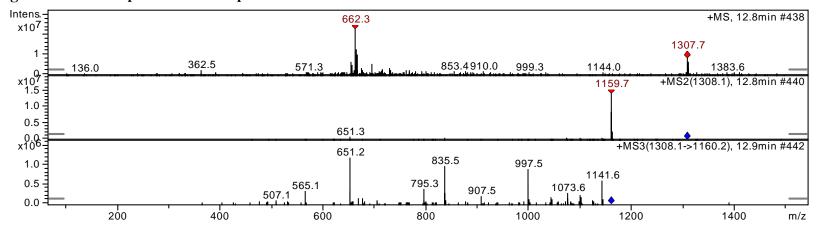


Figure S9. ¹H NMR (pyridine-d₅ 500 M Hz) spectra of new compound 2

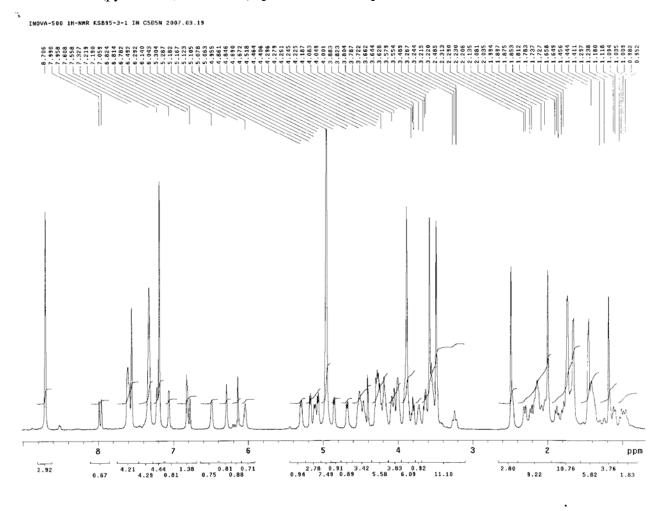


Figure S10. 13 C NMR (pyridine- d_5 125 M Hz) spectra of compound 4

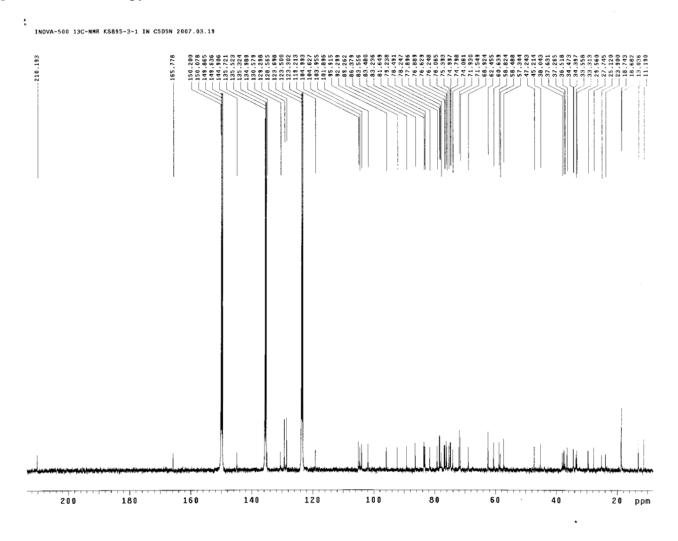


Figure S11. Dept spectra of new compound 4

INOVA-500 DEPT-NWR KSB95-3-1 IN C505N 2007.03.19



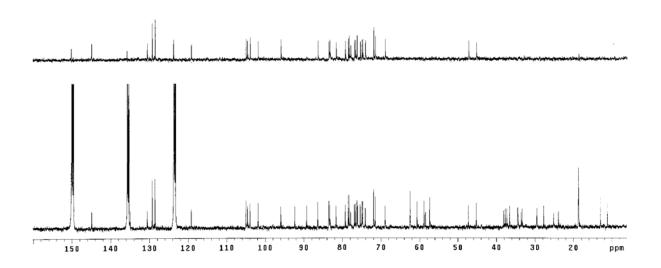


Figure S12. COSY spectra of new compound 4

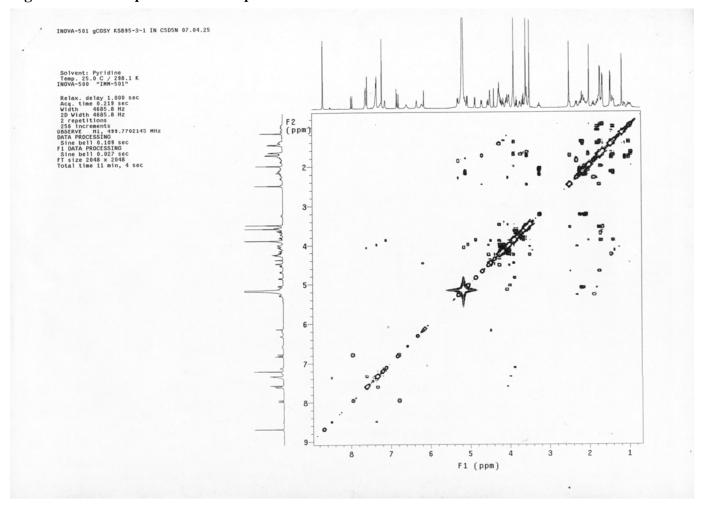


Figure S13. HMQC spectra of new compound 4

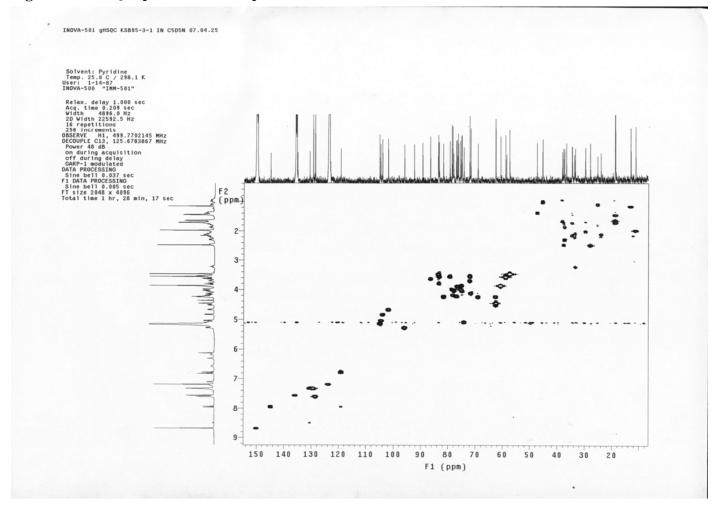


Figure S14. HMBC spectra of new compound 4

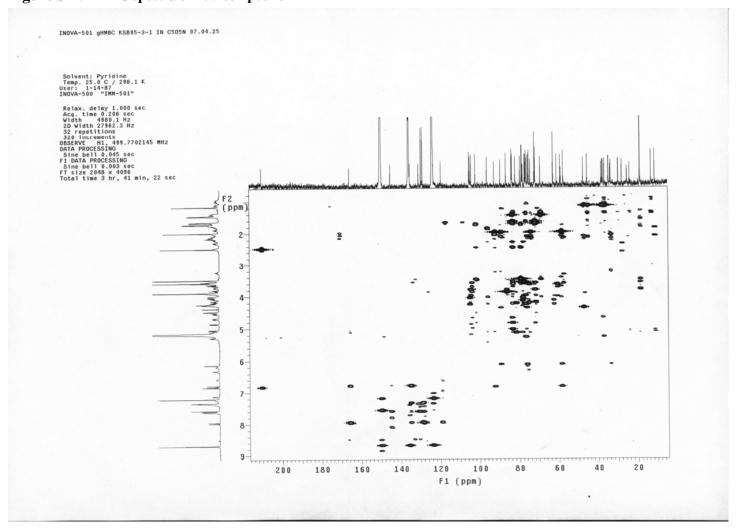


Figure S15 ESI-MSⁿ spectra of new compound 7

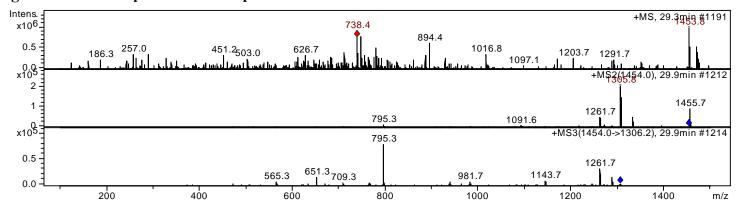


Figure S16. ¹H NMR (pyridine-d₅ 500 M Hz) spectra of new compound 7

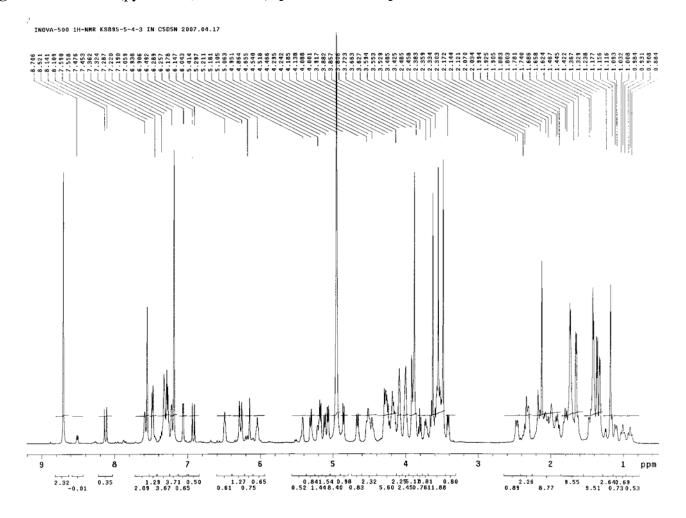


Figure S17. ¹³C NMR (pyridine-d₅ 125 M Hz) spectra of new compound 7

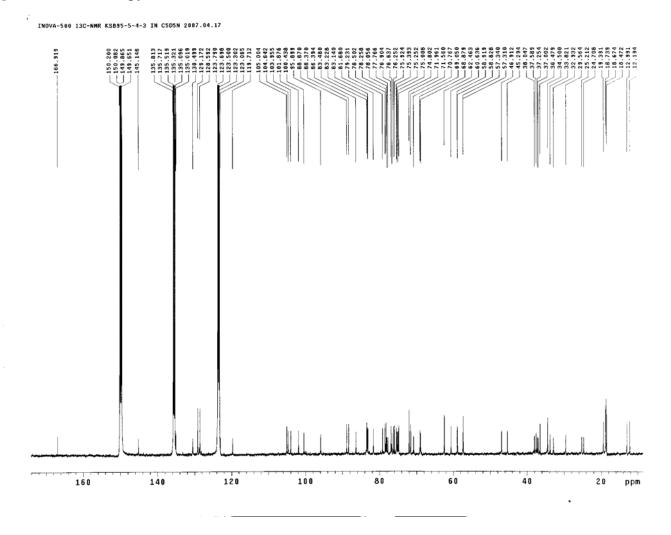


Figure S18. Dept spectra of new compound 7

1 INOVA-500 DEPT-NMR KSB95-5-4-3 IN C5D5N 2007.04.17



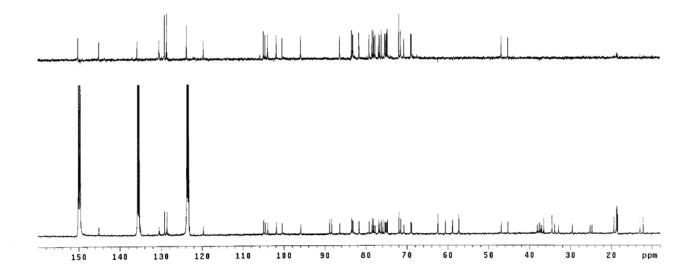


Figure S19. COSY spectra of new compound 7

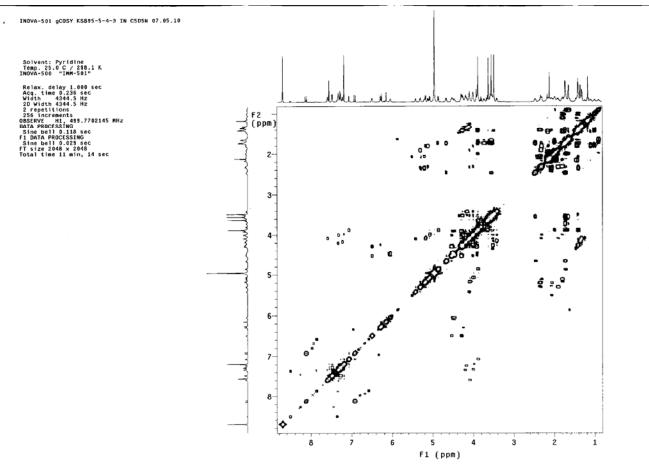


Figure S20. HMQC spectra of new compound 7

INOVA-501 gHSQC KSB95-5-4-3 IN C5D5N 07.05.10

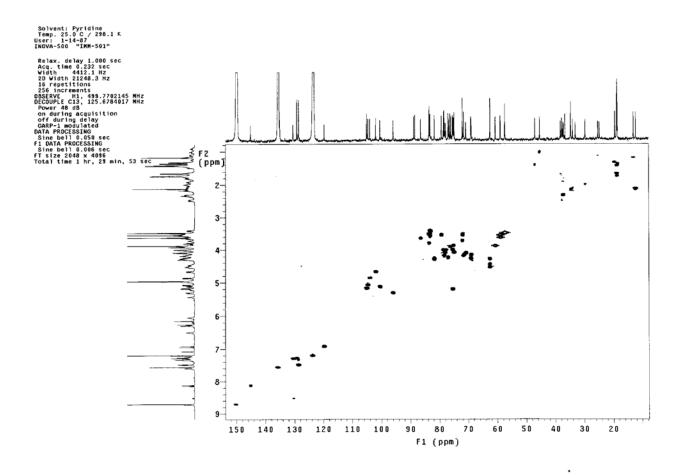


Figure S21. HMBC spectra of new compound 7

