

*Serjanic acid improve immunometabolic markers in a diet-induced obesity mouse model.*

SUPPLEMENTARY INFORMATION

Table S1. Primers sequence used for RT-PCR expression assays

Gene		Sequences	M.P
PPAR- $\alpha$	F	5'- TGTCGAATATGTGGGGACAA-3'	59°C
	R	5'- AATCTTG CAGCTCCGATCAC-3'	
ACC	F	5'- GCCTCTTCCTGACAAACGAG-3'	59°C
	R	5'- TGACTGCCGAAACATCTCTG-3'	
PGC-1	F	5'- TATGGAGTGACATAGAGTGTGCT-3'	59°C
	R	5'- CCACTTCAATCCACCCAGAAAG-3'	
Cpt1a	F	5'- AGATCAATCGGACCCTAGACAC-3'	60°C
	R	5'- CAGCGAGTAGCGCATAGTCA-3'	
Cyclophilin	F	5'-GGAGATGGCACAGGAGGAA -3'	60°C
	R	5'-GTAGTGCTTCAGCTTGAAGTTCTCAT -3'	
TNF- $\alpha$	F	5'-CCCACACCGTCAGCCGATTT-3'	62°C
	R	5'-GTCTAAGTACTTGGGCAGATTGACC-3'	
IL-6	F	5'-CCGGAGAGGAGACTTCACAG-3'	62°C
	R	5'-GGAAATTGGGGTAGGAAGGA-3'	
MCP1	F	5'-TCAGCCAGATGCAGTTAACGC-3'	62°C
	R	5'-TGATCCTCTGTAGCTCTCCAGC-3'	
IL-1 $\beta$	F	5'-AGAGCTTCAGGCAGGCAGTAT-3'	60°C
	R	5'-GAAGGTGCTCATGTCTCATC-3'	

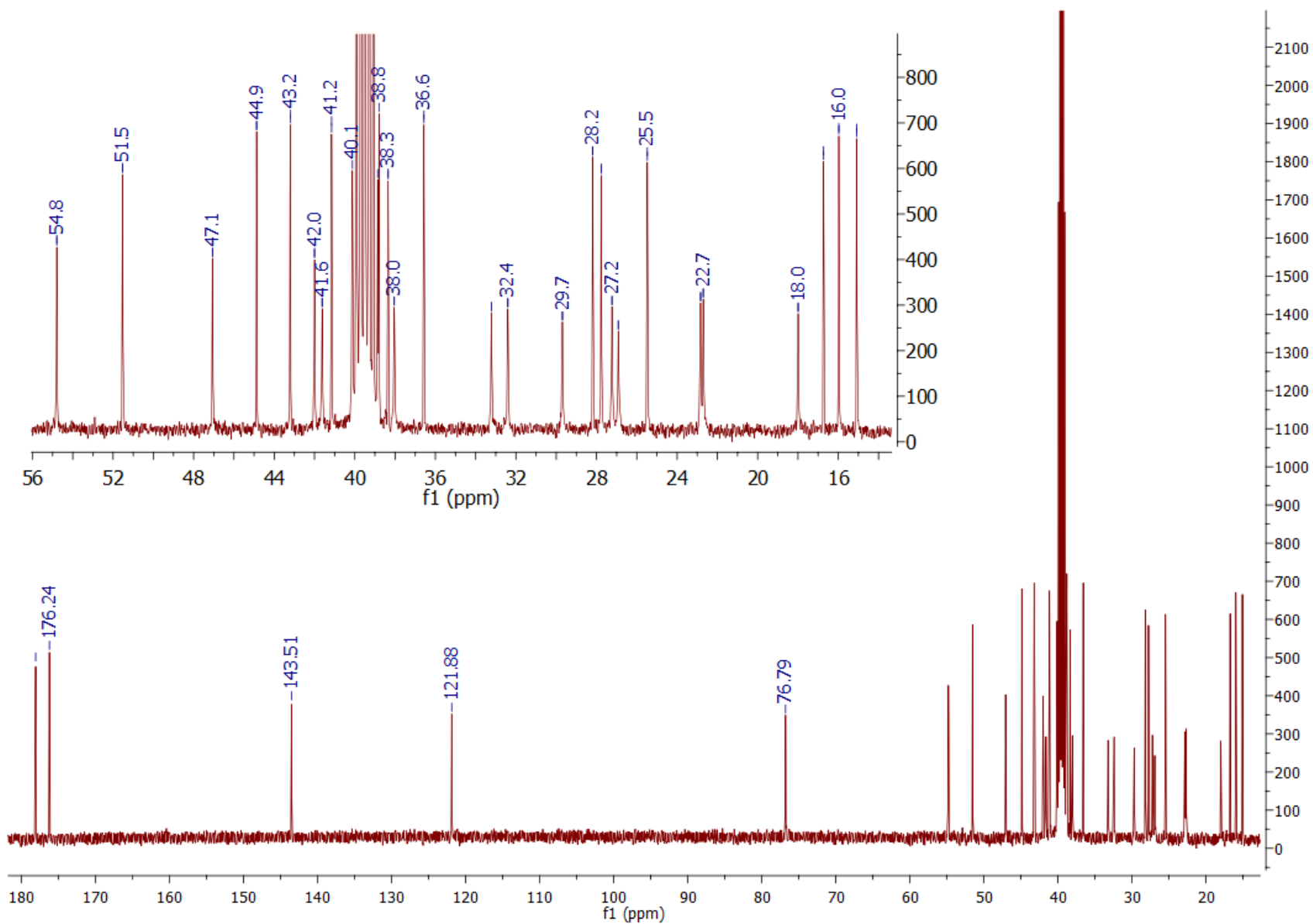
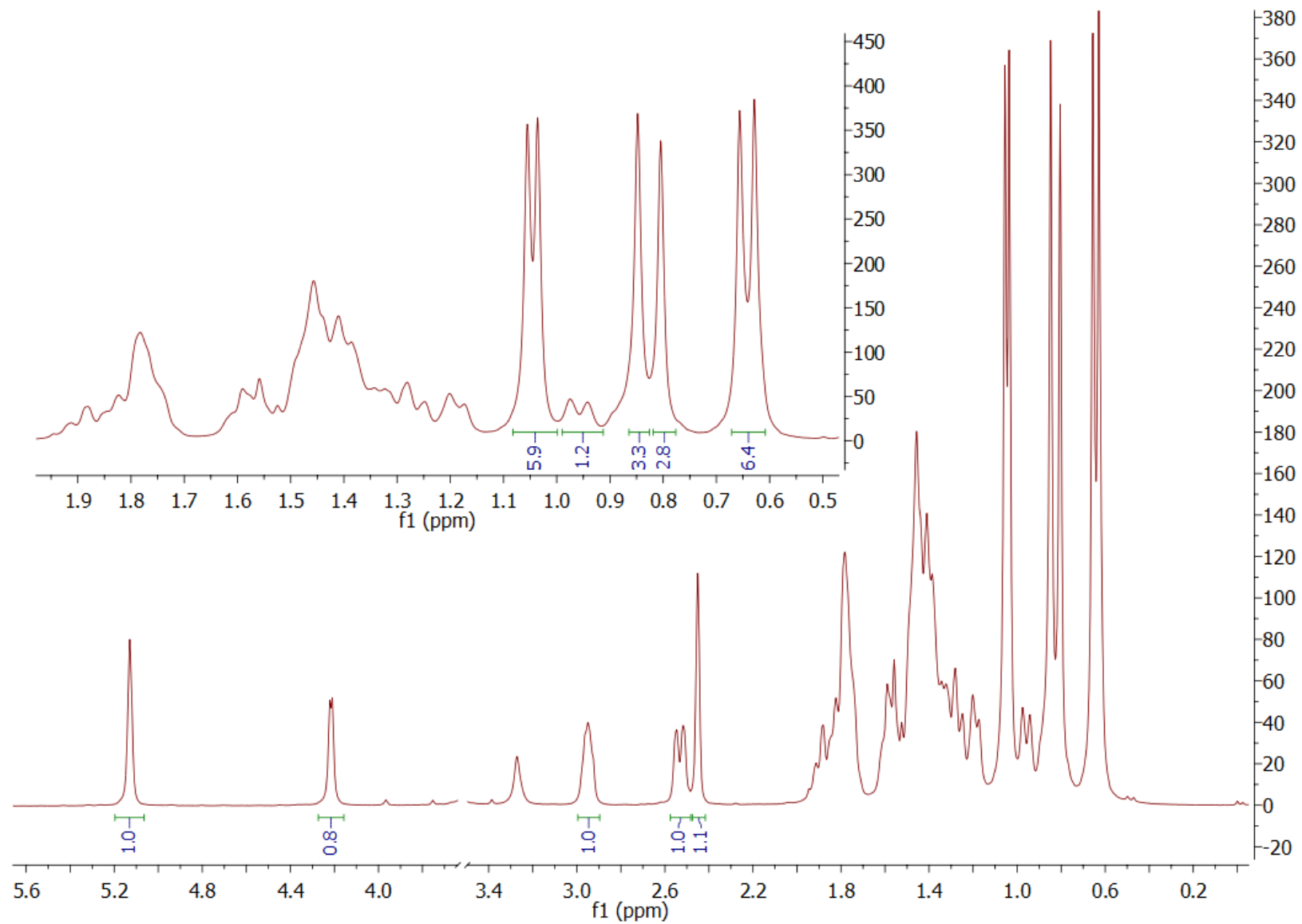


Figure S1. Serjanic Acid  $^{13}\text{C}$ -NMR spectrum



**Figure S2. Serjanic Acid  $^1\text{H-NMR}$  spectrum**