Supplementary Materials

Table 1 Primer sequences for qPCR

| Gene	Primer sequence (5' to 3')
Mouse Collagen Type1	(F)-ATCTCCTGGTGCTGATGGAC (R)-ACCTTGTTTGCCAGGTTCAC
Mouse α-SMA	(F)-GTGTTGCCCCTGAAGAGCAT (R)-GCTGGGACATTGAAAGTCTCA
Mouse Fibronectin	(F)-CGAGGTGACAGAGACCACAA (R)-CTGGAGTCAAGCCAGACACA
Mouse TGFβ1	(F)-TGATACGCCTGAGTGGCTGTCT (R)-CACAAGAGCAGTGAGCGCTGAA
Mouse MMP3	(F)-TTGTTCTTTGATGCAGTCAGC (R)-TGATTTGCGCCAAAAGTGC
Mouse MMP13	(F)-GATGACCTGTCTGAGGAAGACC (R)-GCATTTCTCGGAGCCTGTCAAC
Mouse Nrf2	(F)-CTATGCAGGCTGTGGCAAAACC (R)-TTGCGGTAGTGCCTGGTCAGTT
Mouse HO-1	(F)-CTGAACTCCTGGACGGGACTA (R)-CGGTGGGTCTCCGTAAATGG
Mouse GAPDH	(F)-TGACCTCAACTACATGGTCTACA (R)- CTTCCCATTCTCGGCCTTG

(A)
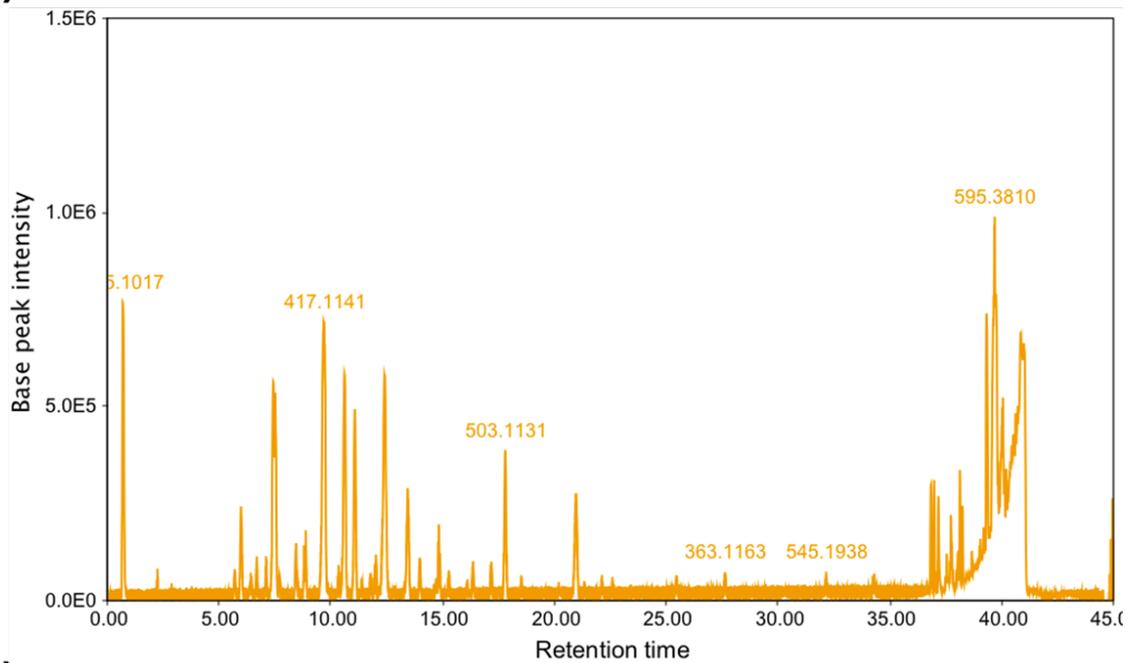
(B)
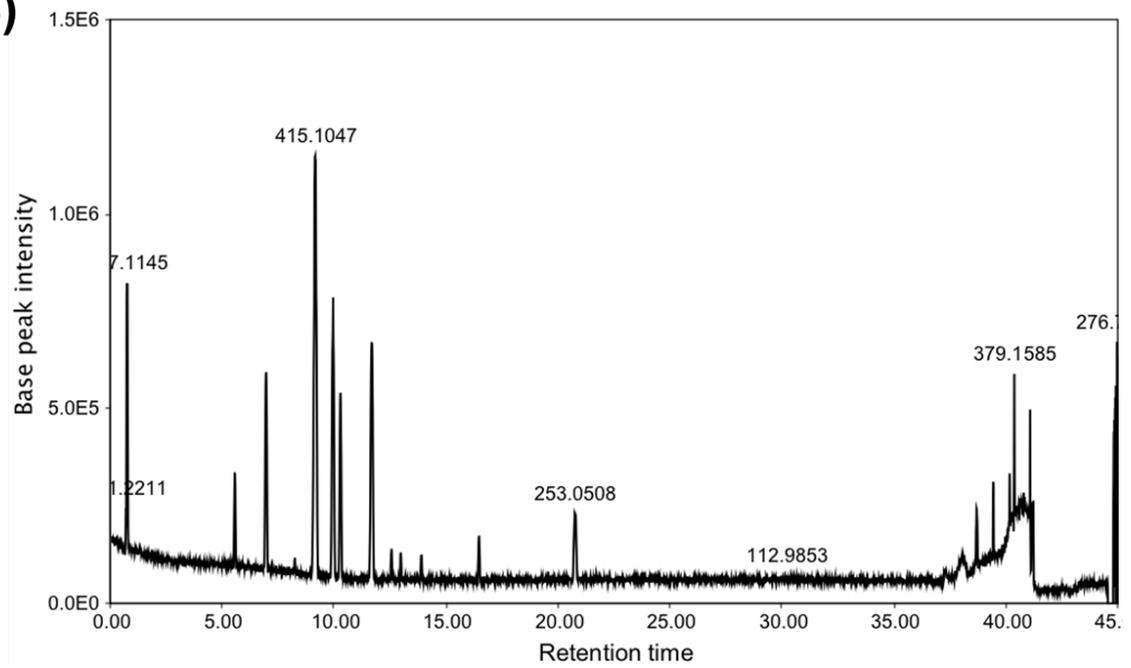
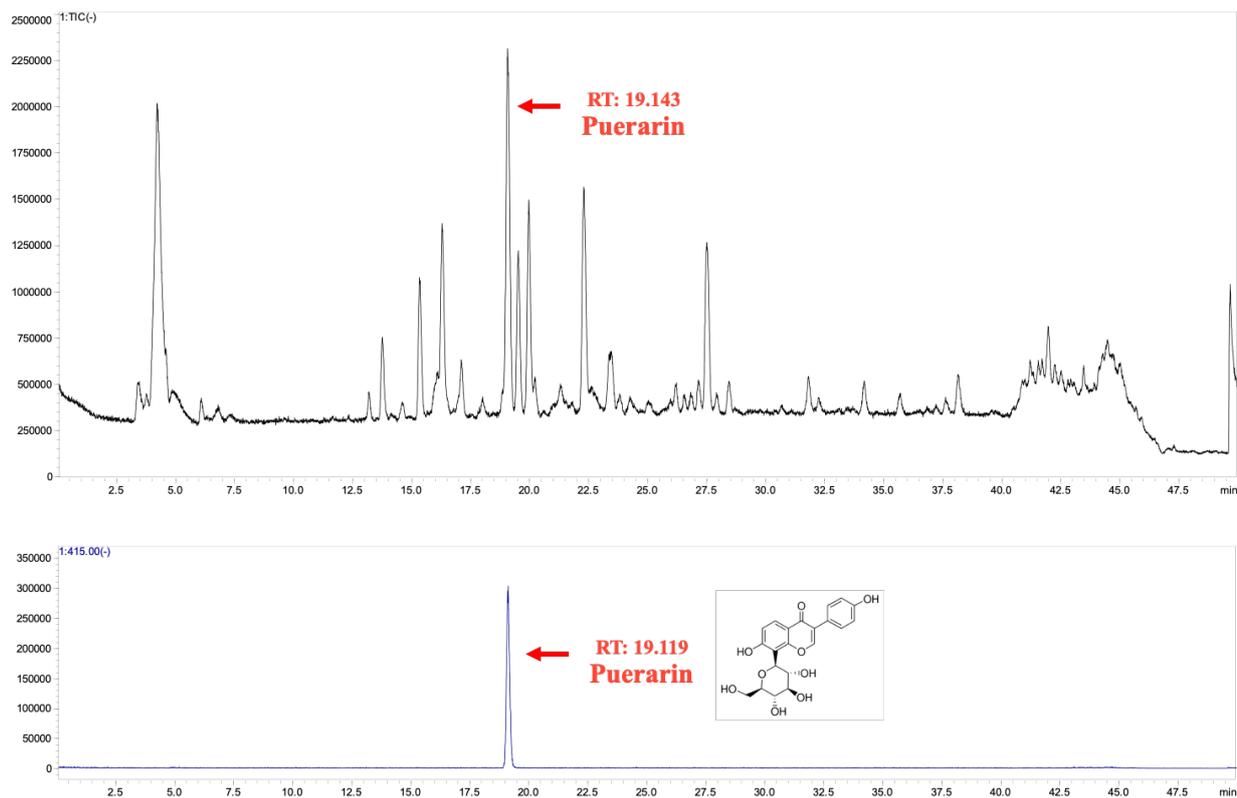
Figure S1. HPLC-QTOF-MS/MS of ESI+ (A) and ESI- (B).

Figure S2. Total ion chromatogram (TIC) of PUR50E acquired in negative ion mode. The peak observed at a retention time of 19.1 min corresponds to the standard compound puerarin.
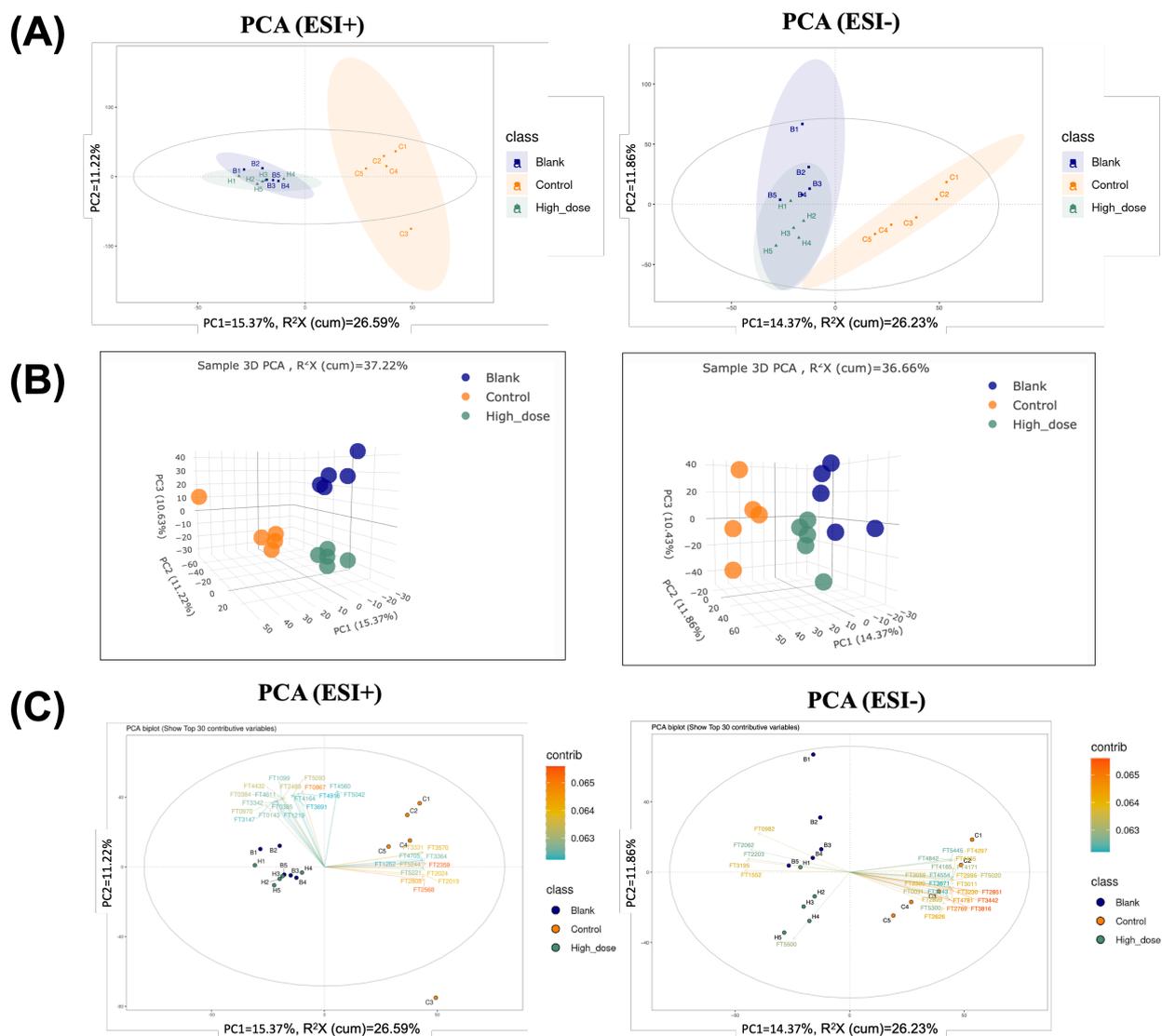
Figure S3. Plots of serum PCA scores between positive and negative ion normal Blank group, Control group (CCl4-induced) and High_does (PUR-H) group mouse. (A) 2D score plots in both ESI+ and ESI− modes, where each point represents a sample, and samples in the same group are represented by the same color. (B) 3D PCA plots in ESI+ and ESI− modes. (C) Biplot in ESI+ and in ESI− mode. Each arrow represents a feature: its direction indicates contribution, its length reflects magnitude (longer = higher contribution), and its angle with the axes shows correlation with the principal components. Arrow colors indicate contribution levels (%) to PC1 and PC2, with orange-red showing higher contributions and blue indicating lower.