

***Edgeworthia gardneri* (Wall.) Meisn. Ethanolic Extract Attenuates Endothelial Activation and Alleviates Cardiac Ischemia-Reperfusion Injury**

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Supplementary Table S1: Chemicals and reagents used in this study

| Chemicals/reagents | Cat number | Company |
|--|------------------------------|----------------|
| Ethanol | 64-17-5 | Xilong Science |
| Dimethyl sulfoxide (DMSO) | D8370 | Solarbio |
| 2,3,5-triphenyl tetrazolium chloride (TTC) | T8170 | Solarbio |
| 10% Neutral Buffered Formalin Fixative | G2162 | Solarbio |
| Hematoxylin | 51275 | Sigma-Aldrich |
| Eosin | E4009 | Sigma-Aldrich |
| MTT | M5655 | Sigma-Aldrich |
| DAB Kit | CW2069S | Cwbio |
| Trizol | 15596-018 | Invitrogen |
| PrimeScript™ RT Reagent Kit | RR047A | Takara |
| SYBR Premix Ex Taq™ II | RR820A | Takara |
| ECM culture medium | 1001-b, 0025, 1052, and 0503 | ScienCell |
| RIPA buffer | KGP703-100 | KeyGen |
| Protease inhibitors | E312-01 | Vazyme |
| Tumor necrosis factor- α (TNF- α) | 300-01A | PeproTech |

| | | |
|--|-----------|---------------------------|
| BCA Protein Assay Kit | 23225 | Thermo Fisher Scientific |
| Anti-p65 | 6956 | Cell Signaling Technology |
| Anti-p-p65 | 3033 | Cell Signaling Technology |
| Anti-p38 MAPK | 8690 | Cell Signaling Technology |
| Anti-p-p38 MAPK | 9216 | Cell Signaling Technology |
| Anti-JNK | 9252 | Cell Signaling Technology |
| Anti-p-JNK | 9255 | Cell Signaling Technology |
| Anti-ERK | 4696 | Cell Signaling Technology |
| Anti-p-ERK | 9101 | Cell Signaling Technology |
| Anti-CD68 | ab125212 | Abcam |
| IRDye® 800CW Donkey anti-rabbit IgG | 926-32213 | LI-COR |
| IRDye® 680RD Donkey anti-mouse IgG | 926-68072 | LI-COR |
| Alexa Fluor 594 Goat anti-Mouse IgG (H+L) | A-11005 | Invitrogen |
| Horseradish peroxidase-conjugated goat anti-rabbit IgG (H+L) | SE134 | Solarbio |
| BAY11-7082 | B5556 | Sigma-Aldrich |
| SP600125 | S5567 | Sigma-Aldrich |
| PD98059 | P215 | Sigma-Aldrich |

| | | |
|----------|-------|---------------|
| SB203580 | S8307 | Sigma-Aldrich |
|----------|-------|---------------|

Supplementary Table S2: Sequences of qRT-PCR primers used in this study

| Species | Genes | Primer sequences (5'-3') |
|---------|--------------------------------|---|
| Rat | <i>Tnf-α</i> | Forward: GTGATCGGTCCCAACAAGGA Reverse: CTTGGTGGTTTGCTACGACG |
| | <i>Il-1β</i> | Forward: TGACTCGTGGGATGATGACG Reverse: CAGCTCACATGGGTCAGACA |
| | <i>Il-6</i> | Forward: CCAGTTGCCTTCTTGGGACT Reverse: CTGGTCTGTTGTGGGTGGTA |
| | <i>Icam-1</i> | Forward: ACCACGGAGCCAATTTCTCA Reverse: TCGAGCTTCAGGACCCTAGT |
| | <i>Gapdh</i> | Forward: ACAGCAACAGGGTGGTGGAC Reverse: TTTGAGGGTGCAGCGAACTT |
| Human | <i>TNF-α</i> | Forward: CCTCTCTCTAATCAGCCCTCTG Reverse: GAGGACCTGGGAGTAGATGAG |
| | <i>IL-6</i> | Forward: ACTCACCTCTTCAGAACGAATTG Reverse: CCATCTTTGGAAGGTTTCAGGTTG |
| | <i>MCP-1</i> | Forward: TGTCCCAAAGAAGCTGTGATC Reverse: ATTCTTGGGTTGTGGAGTGAG |
| | <i>VCAM-1</i> | Forward: TTTGACAGGCTGGAGATAGACT Reverse: TCAATGTGTAATTTAGCTCGGCA |
| | <i>ICAM-1</i> | Forward: TTGGGCATAGAGACCCCGTT Reverse: GCACATTGCTCAGTTCATACACC |
| | <i>GAPDH</i> | Forward: AGAAGGCTGGGGCTCATTTG Reverse: AGGGGCCATCCACAGTCTTC |

Supplementary Figure S1

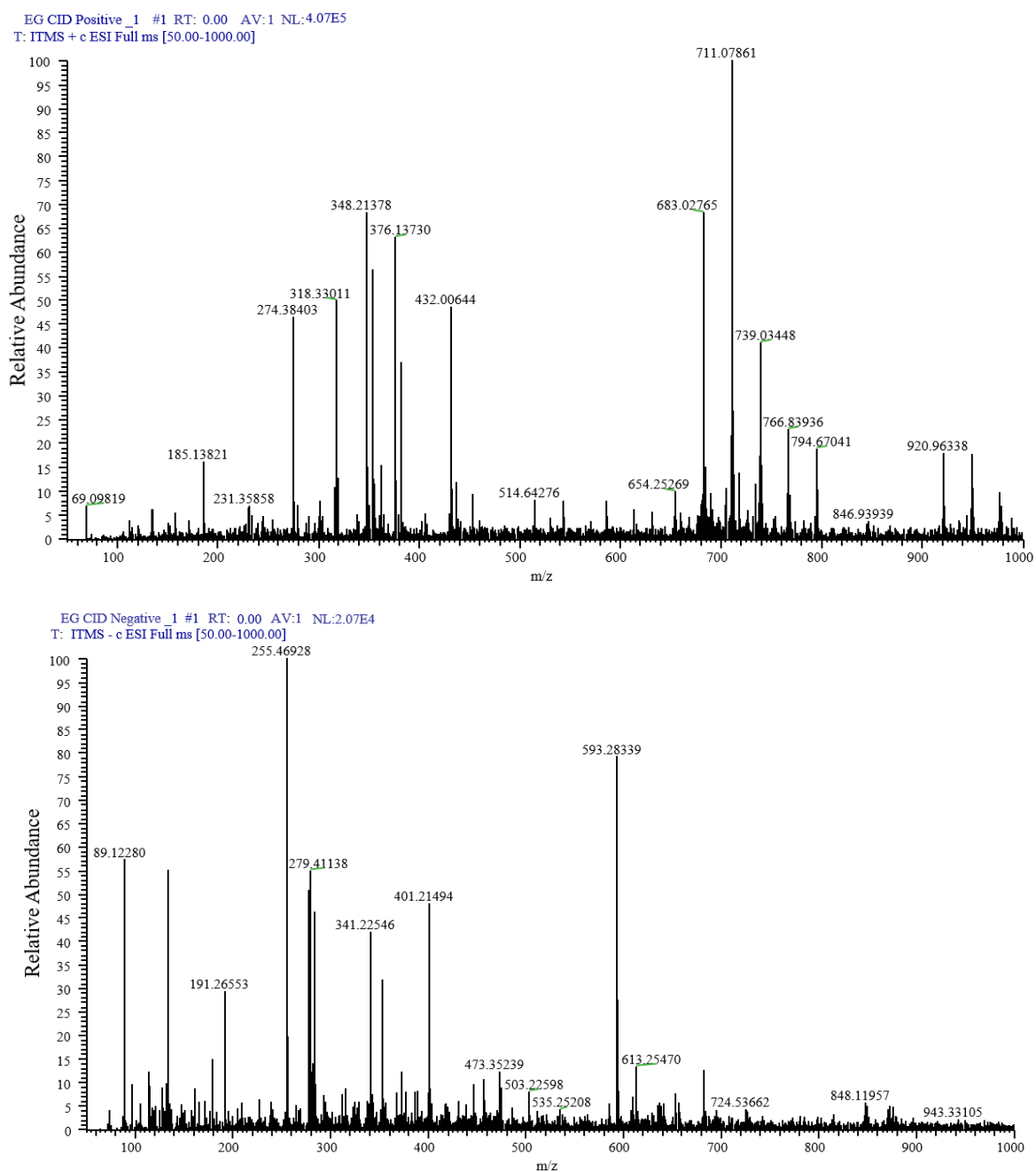


Figure S1. The total ion chromatogram of EG extract by ESI-MS. Upper: positive ionization mode; Lower: negative ionization mode.

Supplementary Figure S2

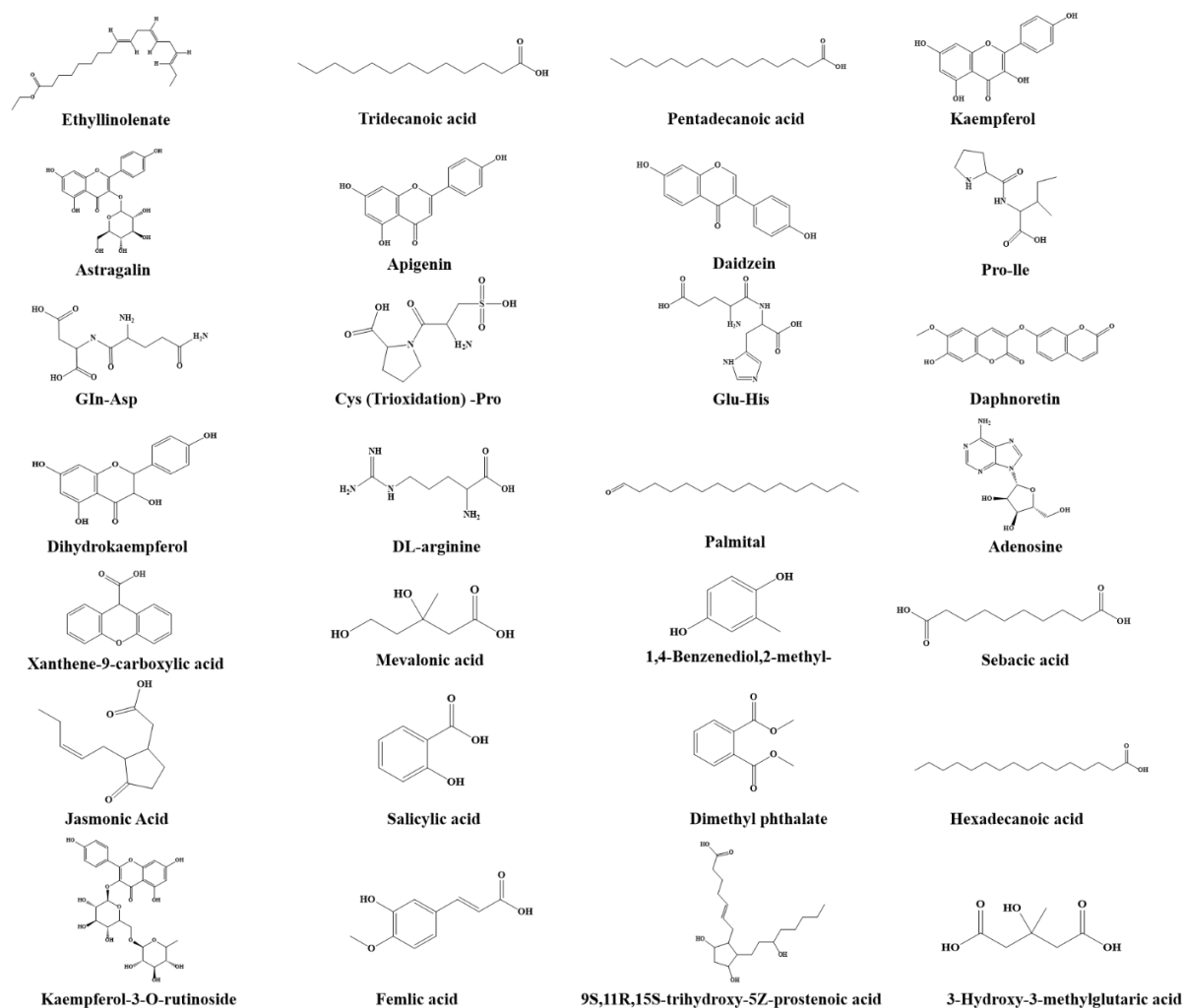


Figure S2. The chemical structures of identified compounds in EG extract.