Supplementary Figure 1. Isolation of ROF from *Citrus grandis* ‘Tomentosa’: The flow chart of extraction and isolation of ROF (A), the chemical structure of ROF (B), and the Chromatograms of a standard ROF, sample ROF and *Citrus grandis* ‘Tomentosa’ that contains target compound (254 nm) (C).
**Supplementary Figure 2.** Bioactive compound–protein docking combination: (A)TLR4, (B)p65, (C)Bcl-2, (D)Caspase-3, (E) CYP2E1.

**Supplementary Figure 3.** Bioactive compound–protein docking combination (3D binding structure): (A)TLR4, (B)p65, (C)Bcl-2, (D)Caspase-3, (E) CYP2E1.
Supplementary Figure 4. Effects of ethanol on cell apoptosis and viability. Mean ± SEM (n=6).

***P<0.001 vs. the CON group.