**Supplemental Figure 1.** Sub-cellular fractionation of cytosol, mitochondria, and nuclear proteins from CCl4-exposed mouse liver. Proper sub-cellular fractionation of cytosol, mitochondria and nuclear proteins was verified by immunoblot analysis with each marker protein as indicated. Cytochrome c oxidase (complex IV), as a marker protein of mitochondria, was detected only in mitochondrial fraction, while α-tubulin, as a marker of cytosolic protein, was recognized in the cytosolic fraction but not in mitochondria or nuclear fractions. Lamin A/C were used as markers for nuclear fraction.
Supplemental Fig. 2: Effects of JNK inhibitors on the levels of serum ALT and liver injury at 24 h post-CCL4 injection. (A, C) Serum ALT levels and (B) representative liver histology in mice in the absence or presence of pretreatment with indicated JNK inhibitors are presented. *Significantly different from vehicle control (p<0.05).
Supplemental Fig. 3. Molecular toxicity analysis of the JNK-mediated phosphorylated mitochondrial proteins. Molecular toxicity and pathology analysis of the phosphorylated proteins were performed by using Metacore software and the top toxicity was found in liver necrosis.