

Magnesium Chloride

Figure S2. (A-D) Protein expression in $MgCl_2$ (42.5 mM) treated UC5 cells as revealed by Western blot analysis. (E) acH4K5 abundance in $MgCl_2$ (42.5 mM) treated UC3 cells as revealed by Western blot analysis.

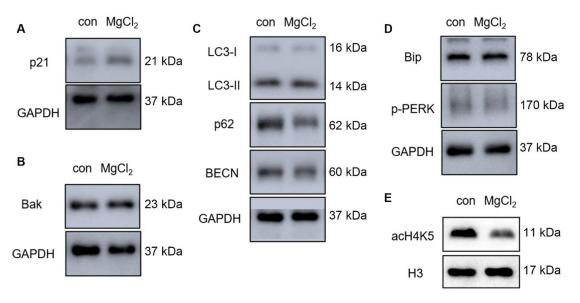


Figure S3. U0126 attenuated MgCl₂ (42.5 mM) induced apoptosis in UC3 bladder cancer cells. Cytosolic and mitochondrial protein fractions were collected using a Cell Mitochondria Isolation Kit (Beyotime, Shanghai, China). Western blot analysis was applied to detect apoptosis-related gene expression in cytosolic (A) and mitochondria (B) protein.

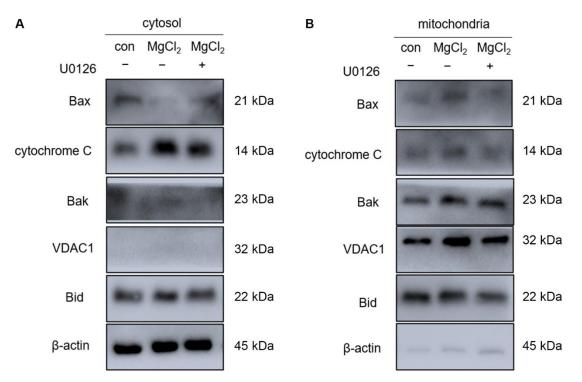


Figure S4. (A) The survival rate of UC5 cells with combination treatment as determined by CCK-8 assay. (B-D) Protein expression in UC5 cells with combinatorial treatment MgCl₂ (42.5 mM) and VPA (5 mM) as revealed by Western blot analysis.

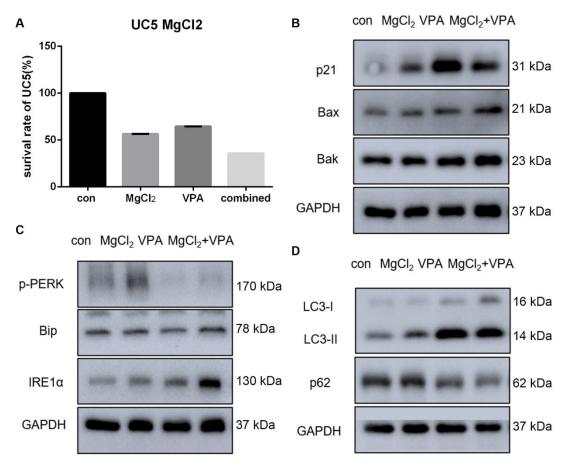


Figure S5. mRNA expression UC3 cells with combinatorial treatment as determined by qRT-PCR. 42.5 mM MgCl₂, 5 mM VPA and 0.05 mM STF083010 were applied for cell treatment. The differences among multiple groups were assessed using the Analysis of variance (ANOVA). *p<0.05 versus control, and **p<0.01 versus control.

