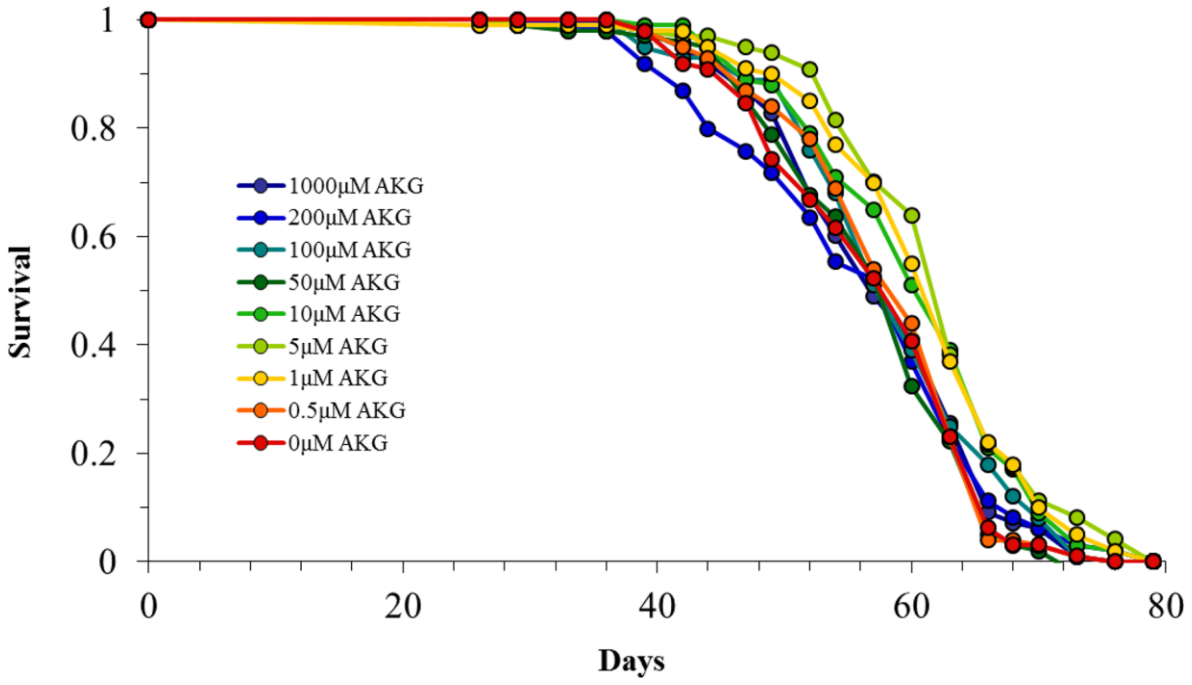
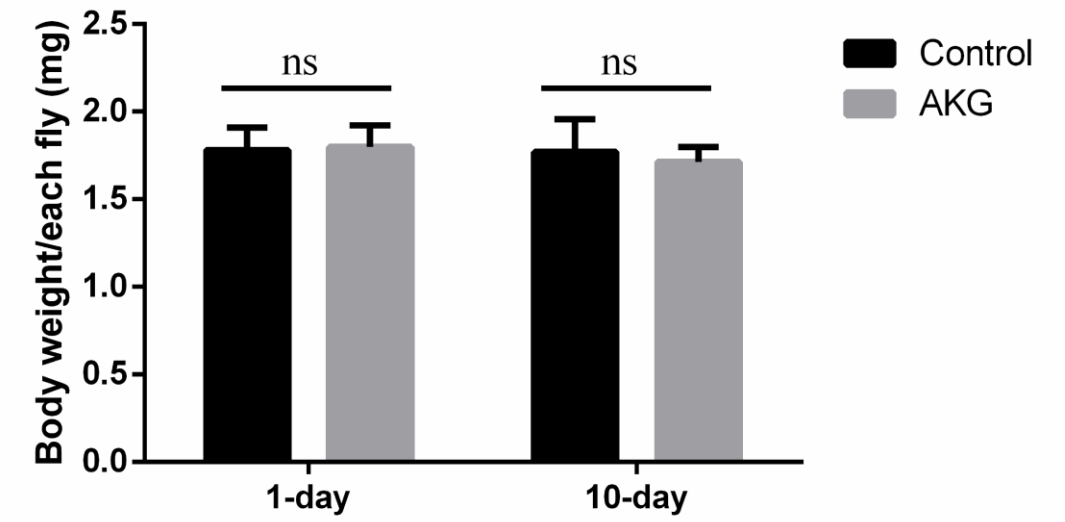
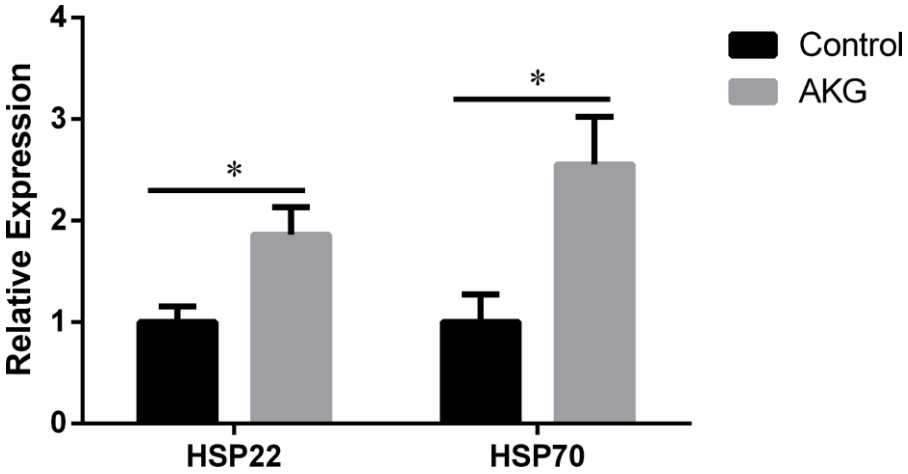
SUPPLEMENTARY FIGURES



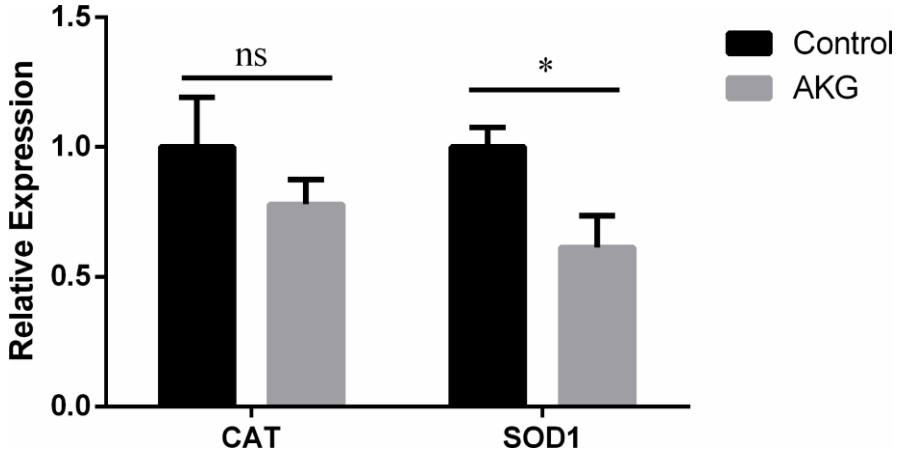
Supplementary Figure 1. Effects of different AKG concentrations (0, 0.5, 1, 5, 10, 50, 100, 200, and 1000 μM) on *Drosophila* lifespan.



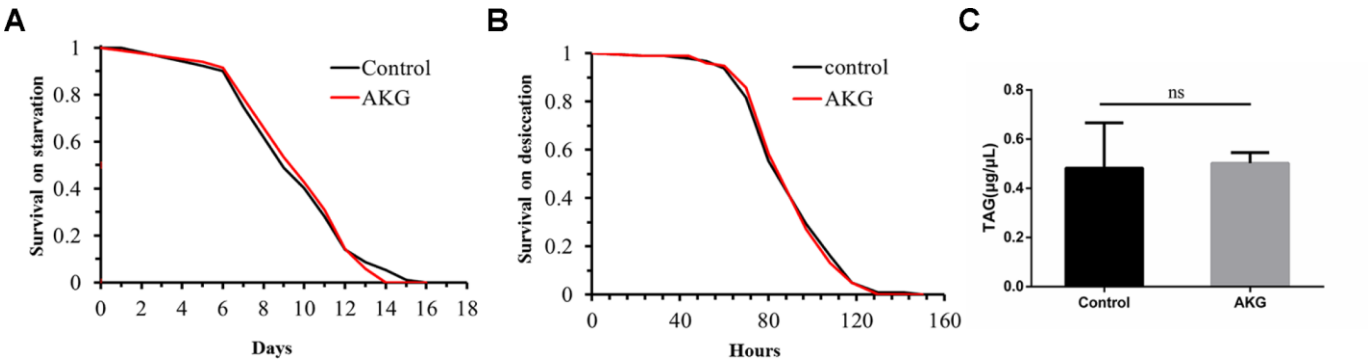
Supplementary Figure 2. AKG had no effect on the body weight of flies (10 days old) (ns = nonsignificant, $p > 0.05$, two-tailed Student's *t*-tests).



Supplementary Figure 3. Relative mRNA expression of *HSP22* and *HSP70* (p* < 0.05, two-tailed Student's *t*-tests).**



Supplementary Figure 4. Relative mRNA expression of *CAT* and *SOD1* (ns = nonsignificant, *p* > 0.05; **p* < 0.05; two-tailed Student's t-*t*ests).



Supplementary Figure 5. Anti–oxidative stress effects of AKG on Drosophila. (**A**) There were no differences in sensitivity to starvation stress between control and AKG-treated flies (5 μM AKG vs control, $p > 0.05$, log-rank test). (**B**) There were no differences in sensitivity to desiccation stress between control and AKG-treated flies (5 μM AKG vs control, $p > 0.05$, log-rank test). (**C**) There were no differences in triacylglyceride (TAG) levels between control and AKG-treated flies (ns = nonsignificant, $p > 0.05$, two-tailed Student's t-tests).