

Figure S1. Rate of weight gain (%) in mice orally injected with acetaminophen (APAP group), or CAS at two concentrations (20, or 100 $\mu\text{g/kg}$) in the presence of APAP ($n = 6$). The data are expressed as the mean \pm SEM and were analyzed via one-way analysis of variance with Tukey's post-hoc test. Significant differences are indicated as follows: #### $p < 0.0001$ vs. normal group; ** $p < 0.01$ vs. APAP group.

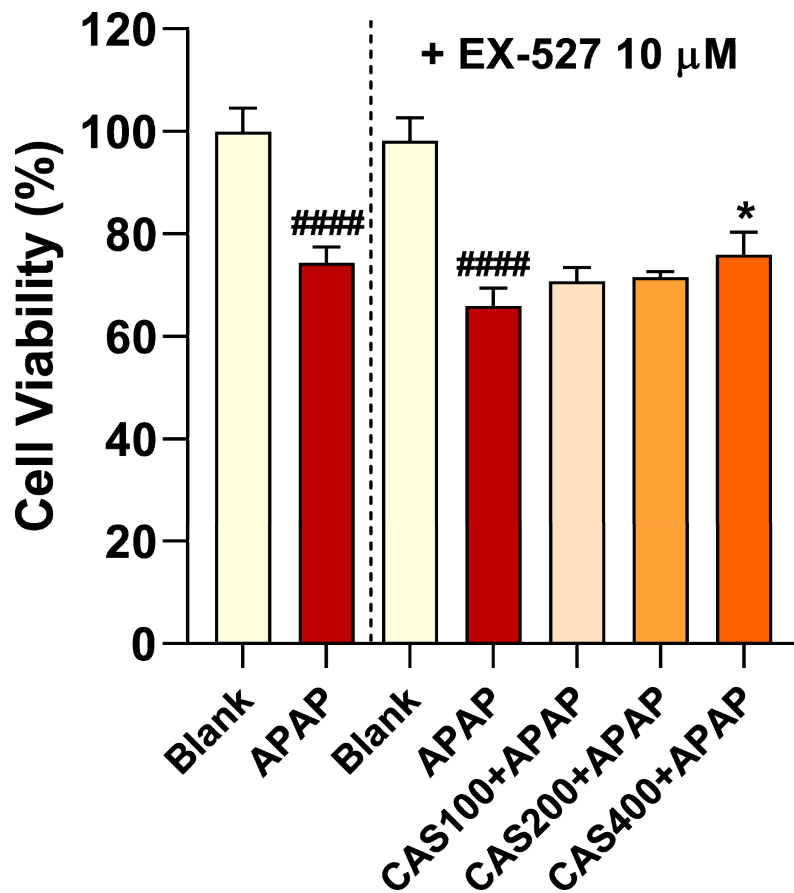


Figure S2. Cell viability of primary hepatocytes pretreated with CAS (100, 200, and 400 $\mu\text{g/mL}$) followed by subsequent exposure to Sirt1 inhibitor EX-527 with APAP for 24 h and determined by CCK-8 ($n = 4$). The data are expressed as the mean \pm SEM and were analyzed via one-way analysis of variance with Tukey's post-hoc test. Significant differences are indicated as follows: #### $p < 0.0001$ vs. blank group; * $p < 0.05$ vs. APAP group.

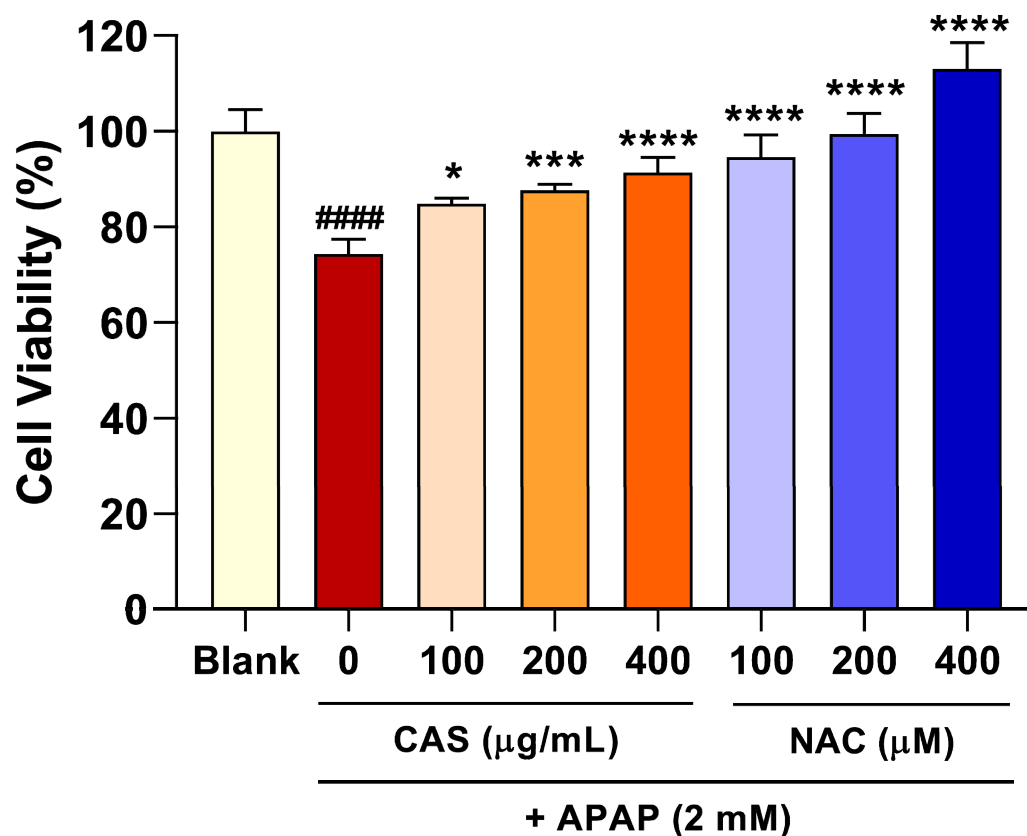


Figure S3. Cell viability of primary hepatocytes pretreated with CAS (100, 200, and 400 $\mu\text{g/mL}$) followed by subsequent exposure to ROS inhibitor NAC (100, 200, and 400 μM) with APAP for 24 h and determined by CCK-8 ($n = 4$). The data are expressed as the mean \pm SEM and were analyzed via one-way analysis of variance with Tukey's post-hoc test. Significant differences are indicated as follows: #### $p < 0.0001$ vs. blank group; * $p < 0.05$, *** $p < 0.001$, and **** $p < 0.0001$ vs. APAP group.