

Figure S1. Thermal validation of USP11 solubility at lower temperatures. H9c2 cell lysates (pretreated with DMSO or 10 μ M Sal for 30 min) were subjected to cellular thermal shift assay across a 34-50°C gradient. Immunoblots and semi-quantification show no significant thermal denaturation of USP11 up to 50°C, with no difference in protein solubility between the DMSO and 10 μ M Sal groups (n=3). Data are presented as the mean $\pm$ SD. USP11, ubiquitin-specific protease 11; Sal, salidroside; ns, not significant.

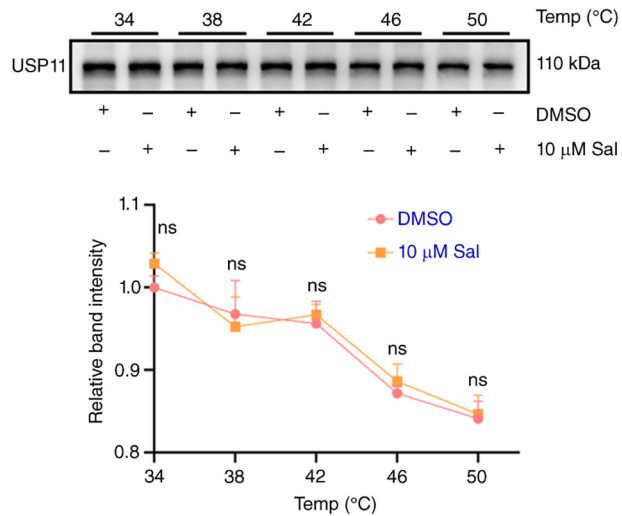


Figure S2. Quantitative analysis of myocardial infarct size. Myocardial infarct size was assessed via triphenyl tetrazolium chloride staining and calculated as the percentage of the infarcted area relative to the total ventricular slice area (n=3). Data are presented as mean $\pm$ SD, with ***P<0.001 indicating statistical significance. I/R, ischemia/reperfusion; Sal, salidroside.

