Figure S1. Analysis of morin-induced DNA damage in HER2-overexpressing human breast cancer SK-BR-3 cells using TUNEL assay. Cells were seeded onto 4-well Lab-Tek II Chamber Slide (Nalge Nunc International) and attached for 24 h. The cells were treated by indicated concentration of morin (50 and 200 μM) for 48 h. TUNEL reaction was performed by DeadEnd™ Fluorometric TUNEL System (Promega Corp.) according to the manufacturer's instruction. Then, the cells were mounted by DAPI containing antifade mounting solution and covered by coverslip. TUNEL-positive cells were observed and photographed under a fluorescence microscope (Carl Zeiss).

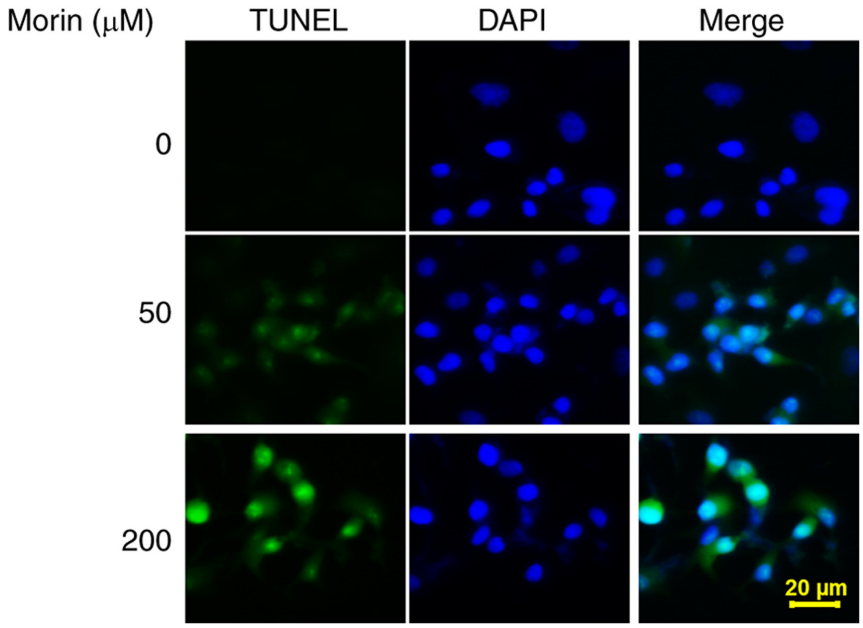

Figure S2. Effect of autophagy inhibitor, chloroquine, on cell death by morin in HER2-overexpressing human breast cancer SK-BR-3 cells. Cells were treated by various concentration of morin for 48 h. Cell viabilities were measured by using a sulforhodamine B based method. Cell viability assays were performed independently in triplicate. Data are presented as means ± SD; *P<0.05 and **P<0.01. Data were statistically analyzed with one-way ANOVA test, followed by Tukey post-hoc test, using SPSS V20.0 software.