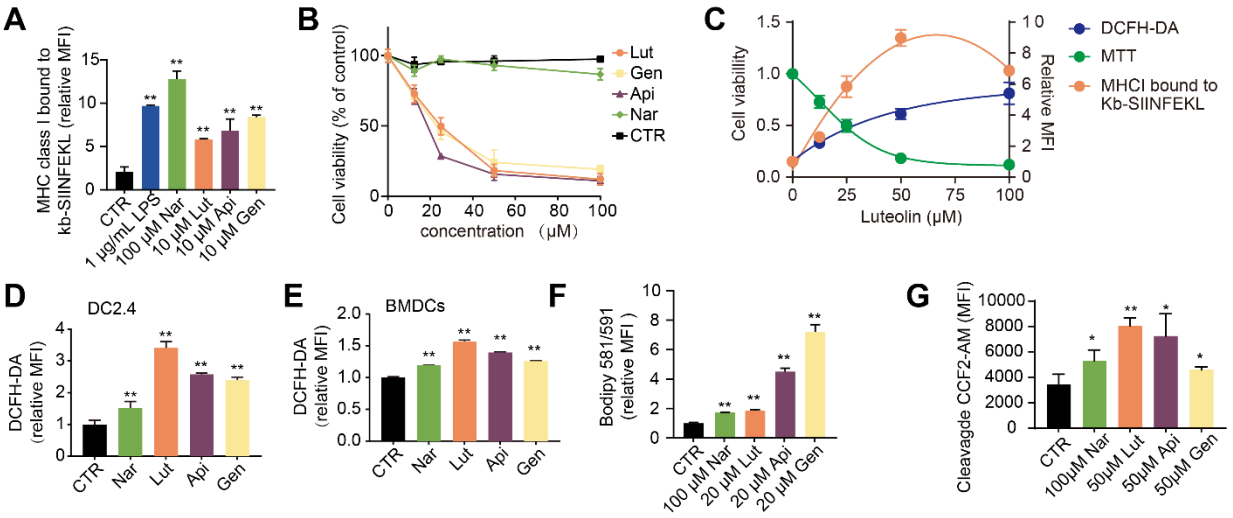
Supplemental Figure 1.



Supplemental Figure 1. The pro-oxidative and cross-presentation properties of representative flavonoids. A, DC2.4 cells were incubated with soluble OVA (2 mg/mL) in the presence of flavonoids at the indicated concentrations for 24 h, H-2K^{b}–SIINFEKL on the surface of the cells was assessed by staining with monoclonal antibody, Anti-Mouse OVA257-264 (SIINFEKL) peptide bound to H-2Kb PE. **B,** MTT assay of the representative flavonoids after treating the DC2.4 cells for 24 h. (**C**) For MTT assay, DC2.4 cells were treated with various concentrations of luteolin for 24h; intracellular total oxidative stress was detected with DCFH-DA after treating for 1 h; for the detection of cross-presentation, OVA was added to a final concentration of 1 mg/ml and then for another 8 h. (**D**) DC2.4 cells or BMDCs (**E**) were loaded with 20 μM DCFH-DA before treating with 20 μM flavonoids in serum-free medium for 1 h, then analyzed by flow cytometry. Results were represented as relative mean fluorescence intensity (MFI). (**F**) DC2.4 cells were pre-incubated with CCF2 for 1 h, and then treated with 1 mg/mL β-lactamase for another 3 h in the presence or absence of flavonoids, and analyzed by FACS. (**G**) DC2.4 cells were treated as indicated agents in the presence of 5 μM MG132 and 0.5 mg/mL biotin-BSA. Cytosolic biotin-BSA was detected by western blot after isolation of the cytosolic fraction. Data are representative of three independent experiments [mean ± SEM in (A)-(G)], The *p* values in (A)-(G) derive from a two-tailed unpaired *t* test,*, $p < 0.05$, **, $p < 0.01$. Luteolin, Lut, Apigenin, Api, Naringenin, Nar, Genistein, Gen, bafilomycin A1, BfA.