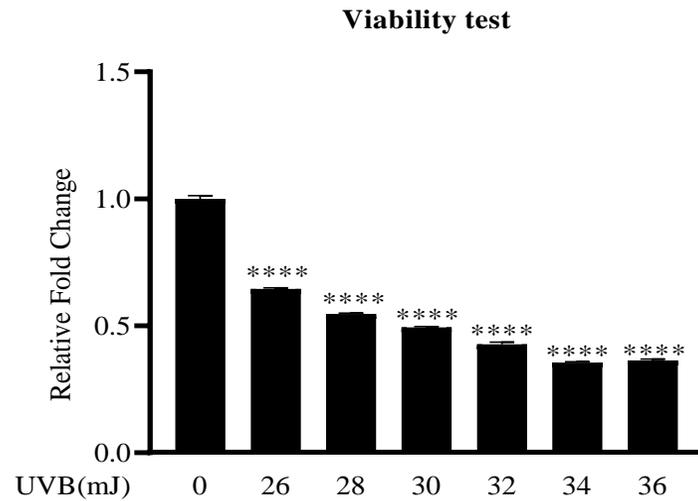


Figure S1. NR has no effect on B16F10 cell growth at concentrations prior to 2mM. NR unaffected on cell growth at concentrations below 2 mM in CCK8 assay. Relative to 0 mM control: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$ (unpaired t-test). The data are expressed as the mean \pm SE.

(A)



(B)

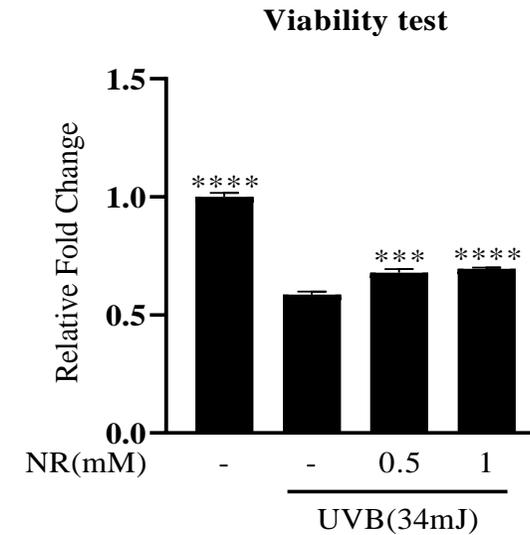


Figure S2. NR protect UVB-induced cell death. NR rescues cell viability against UVB-induced cell death in CCK8 assay. Viability test with different dose of UVB (A) and UVB 34mJ with NR (B). Relative to UVB control: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$ (unpaired t-test). The data are expressed as the mean \pm SE.

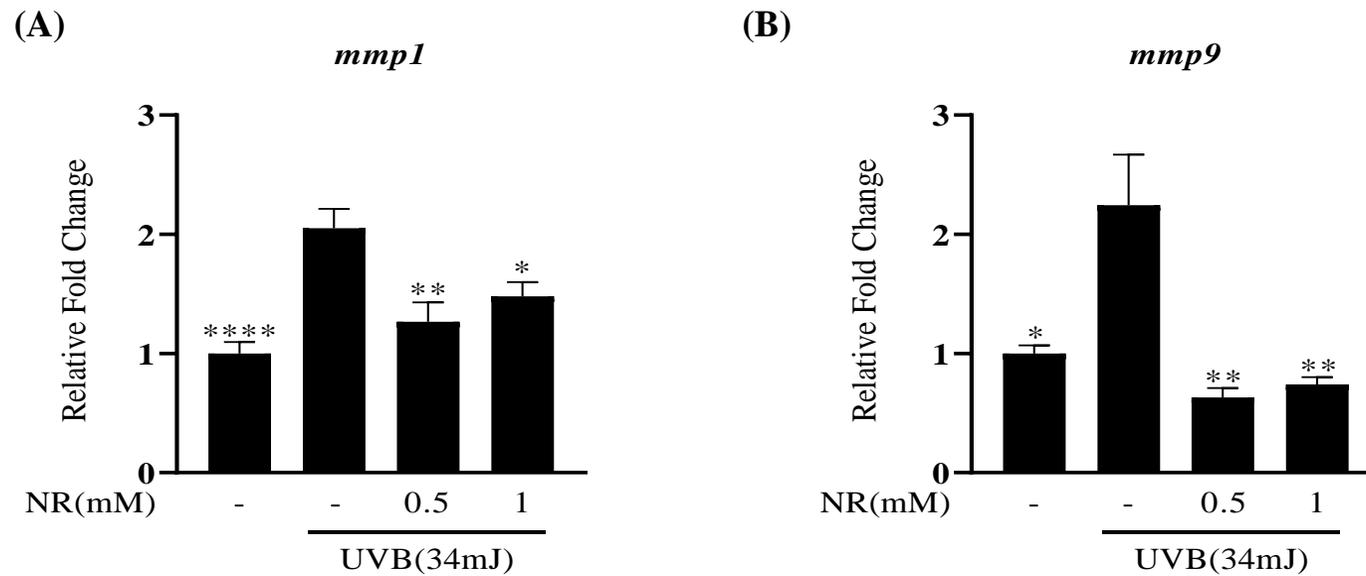


Figure S3. NR decrease the gene expression of UVB-induced matrix metalloproteinase. UVB-induced matrix metalloproteinase reduced NR treatment: mmp1(A), mmp9 (B). Relative to UVB control: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$ (unpaired t-test). The data are expressed as the mean \pm SE.