

Supplementary Materials:

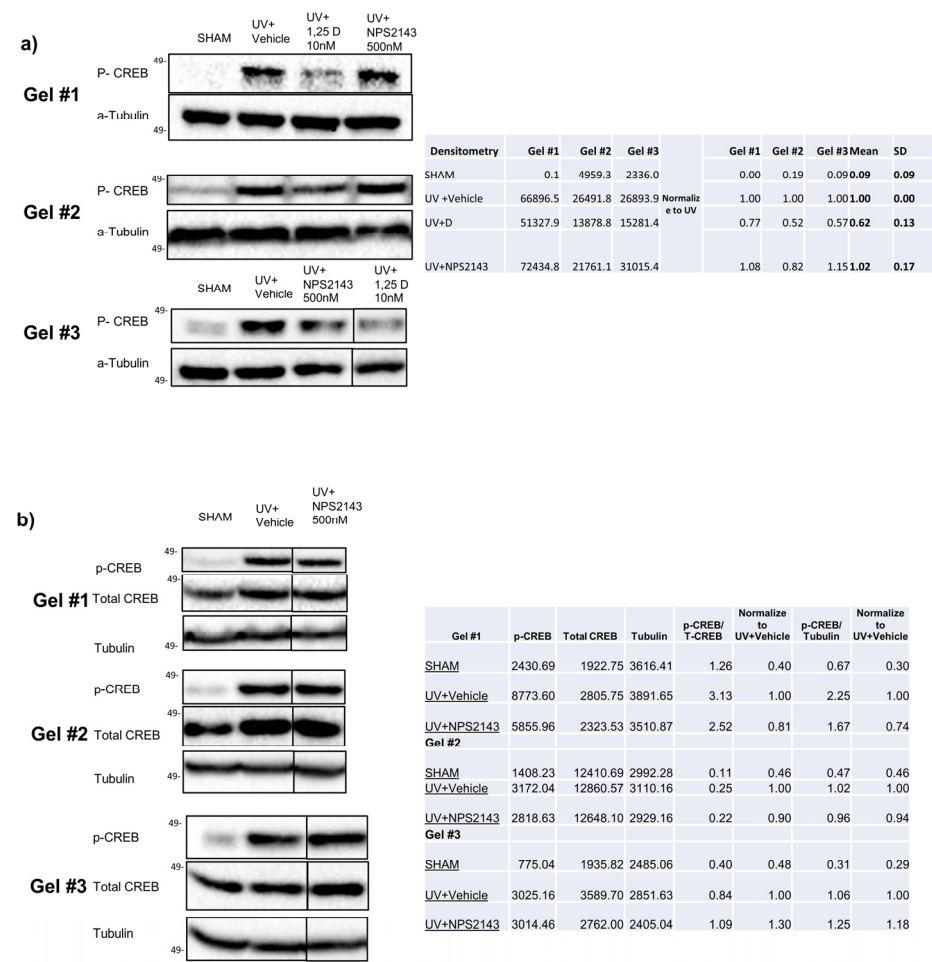


Figure S1. Western Blot and densitometry of a) p-CREB and Tubulin.b) p-CREB, total CREB and tubulin. Human keratinocytes cultured in 96 well plates were irradiated with 400 mJ/cm² UVB followed by treatment with vehicle, 10nM 1,25(OH)₂D₃ or 500 nM NPS-2143 in the presence of 1 mM CaCl₂ for 90min. In pannel a) and b) blot was cut at the balck solid line to remove a lane tested on compound X (not to be disclosed). Triplicates blot and densitometry data in the table from b) were used to generate data in Figure 4f. Gel #1in b) is the representative blot for Figure 4f.

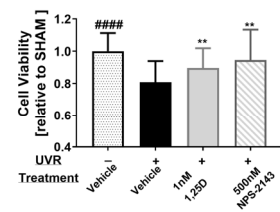


Figure S2 Cell Viability by CTB assay analysed at 3 hours post UV with treatments as indicated on primary keratinocytes Media contained 1.0 mM Ca²⁺. Data was presented as fluorescence values (Mean +SEM) normalized to SHAM. n=5 ** p<0.01, F(1.546, 32.47) = 6.870 compared with UV+Vehicle by linear mix model. ####, p<0.0001, significantly different from UV+Vehicle by T-test (t=5.180, df=42).

Methods for supplementary Figure S1a

Cell viability by Cell Titer Blue Assay

Human keratinocytes were irradiated with an Oriel 1000W xenon-arc lamp solar simulator (Newport Corporation) and then treated with vehicle, 1, 25D and NPS-2143 as previously [26]. Cell viability was determined using the Cell Titer-Blue® Cell Viability Assay (Promega, USA) according to the manufacturer's instructions.