

Supplementary Information for:

Plant extract mixture shows anti-inflammatory and barrier-strengthening effects and activates aryl hydrocarbon receptor in a 2D psoriasis model.

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Supplementary Methods

Resazurin cell viability assay

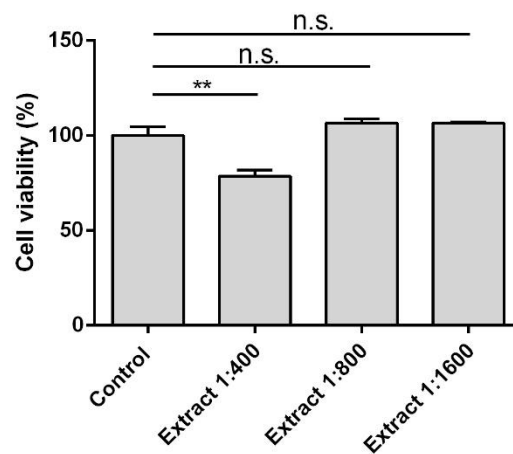
Cell viability of NHEKs was determined using the fluorometric Cell Viability Kit based on a resazurin assay (Promocell, Heidelberg, Germany). In detail, CaCl₂-differentiated NHEKs, seeded in a 96-well plate, were treated with 1:400, 1:800 and 1:1600 dilution of the plant extract mixture for 24 h. Then, medium was replaced with 100 μ L cell medium containing 10% resazurin. After 2 h, absorbance was measured at 570 nm and 600 nm using a microplate reader. The difference in absorbance between 570 nm and 600 nm was calculated and normalized to the control (cells incubated with medium only).

Supplementary Figures





Supplementary Figure S1: Uncropped blots for $\text{IkB}\zeta$ and pan-actin shown in Figure 4. Cropped areas used in the main figure are indicated by red boxes. The molecular weight markers are shown on the left of each blot.



Supplementary Figure S2: Treatment of differentiated NHEKs with the plant extract mixture in 1:400 dilution reduced cell viability. CaCl_2 -differentiated NHEKs were treated with different concentrations of the plant extract mixture for 24h. Then, cell viability was measured by using resazurin cell viability assay. Absorbance results were normalized to the control. Statistical analysis was tested by one-way ANOVA with subsequent comparison ($n=3$, $**p < 0.01$, ns = not significant). Bars indicate means + SEM.