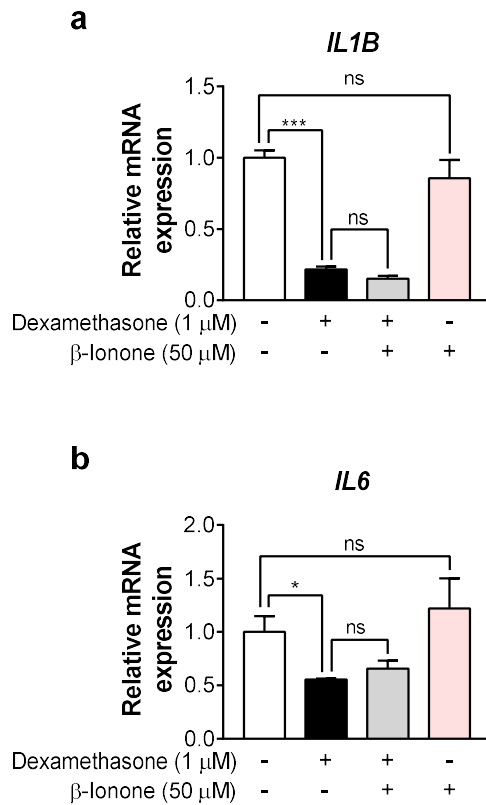


Supplementary Figure 1. β-Ionone treatment has no effect on the collagen synthesis in the basal model. The cells were treated with vehicle (dimethyl sulfoxide) or β-ionone (50 μM) for 24 h and the procollagen type I c-peptide content was measured in the culture supernatants of the dermal fibroblasts. Values are shown as mean ± standard error of the mean (SEM) of three experiments. Statistical significance is expressed as follows: ns, not significant ($p > 0.05$).



Supplementary Figure 2. β-Ionone has no effect on the expression of pro-inflammatory genes in human dermal fibroblasts. (a,b) The cells were treated with vehicle (DMSO), dexamethasone (1 μM) or β-ionone (50 μM) for 12 h and gene expression levels of interleukin 1 beta (IL1B) and IL6 were measured. Values are shown as mean ± standard error of the mean (SEM) of three experiments. Statistical significance is expressed as follows: ns, not significant ($p > 0.05$), * $p < 0.05$, *** $p < 0.001$.

Supplementary Table 1. Primer sequences.

Gene description	Sequence (5'→3')
Annexin A4 (<i>ANXA4</i>)	F: ACCAGCAGCAATATGGACGG R: TTCGGTTCGGGAACAGAG
AT-rich interaction domain 5b (<i>ARID5B</i>)	F: GCAGTCACATGCTGTAGCTTTC R: TCTTCTTGTGGGCATGGTTTC
B-cell lymphoma 6 (<i>BCL6</i>)	F: GTCCTGCAGCAGTAAGAATGCCTG R: GGCTGTTGAGCACGATGAACTTGT
Collagen type I α 1 chain (<i>COL1A1</i>)	F: ACATGTTTCAGCTTTGTGGACC R: TGTACGCAGGTGATTGGTGG
Collagen type I α 2 chain (<i>COL1A2</i>)	F: CGGACTTTGTTGCTGCTTGC R: CAGCAAAGTTCCCACCGAGA
DNA damage inducible transcript 4 (<i>DDIT4</i>)	F: TGAGGATGAACACTTGTGTGC R: CCAACTGGCTAGGCATCAGC
Dual specificity phosphatase 1 (<i>DUSP1</i>)	F: TGGAGGAAGGGTGTTCCTCC R: CAAGGCAGATGGTGGCTGA
ErbB receptor feedback inhibitor 1 (<i>ERRFI1</i>)	F: GGCCTCACAGGTTTGAGATG R: TTCATCGGAGCAGATTTGGAAG
FK506 binding protein 5 (<i>FKBP5</i>)	F: GTCCAAAGCCTCAGAGTCGTTTC R: AGCCTTCTCATTGGCACTGTC
Glyceraldehyde-3-phosphate dehydrogenase (<i>GAPDH</i>)	F: TCTGGAAAGCTGTGGCGTGA R: TACTTGGCAGGTTTCTCCAGG
Glucocorticoid-induced leucine zipper (<i>GILZ</i>)	F: TCCTGTCTGAGCCCTGAAGAG R: AGCCACTTACACCGCAGAAC
Glutamate-ammonia ligase (<i>GLUL</i>)	F: AGAAGAGCGGAGCGTGTGAG R: CATGGTGGAAGGTGTTCTGGTC
Hyaluronic acid synthase 2 (<i>HAS2</i>)	F: GAGCAGCCCATTGAACCAGA R: AGGAAGCGCAGAAATTGGGAG
Interleukin 1 beta (<i>IL1B</i>)	F: GAGCTCGCCAGTGAAATGATGG R: CTTGCTGTAGTGGTGGTCGG
Interleukin 6 (<i>IL6</i>)	F: TGCAATAACCACCCCTGACC R: GTGCCCATGCTACATTTGCC
Kruppel-like factor 13 (<i>KLF13</i>)	F: ACGCCAACCTCCACCCAG R: TTCGCTCAGCTTTCCTATTACC
Metallothionein 1E (<i>MT1E</i>)	F: CCCTTTGCTCGAAATGGA R: GGGTTTGTGTCCACGAG
Metallothionein 2A (<i>MT2A</i>)	F: GCTCCTGCAAATGCAAAGAGTG R: CTTGTCCGACGCCCTTTG
Nuclear factor κ B inhibitor α (<i>NFKBIA</i>)	F: AGCACAAAGAGAGTGTCCG R: CAGCGTTCATGGTTATGG
Phosphoinositide-3-kinase regulatory subunit 1 (<i>PIK3R1</i>)	F: AGCATTGGGACCTCACATTACACA R: ACTGGAAACACAGTCCATGCACATA
Serum deprivation response protein (<i>SDPR</i>)	F: AGTCACGGTGCTCACGCTCC R: GTTGCTGGTGGAGGCCTGGT
Solute carrier family 19 member 2 (<i>SLC19A2</i>)	F: AGCCAGACCGTCTCCTTGTA R: TAGAGAGGGCCACACAC
Zinc fingers and homeoboxes 3 (<i>ZHX3</i>)	F: GGTGTCTGAGAACAGTGAGTCG R: GCAGGCGGTTTCCAGACTGG