Supplementary Information

Skullcapflavone II Inhibits Degradation of Type I Collagen by Suppressing MMP-1 Transcription in Human Skin Fibroblasts

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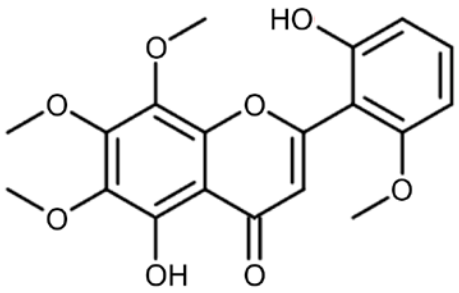
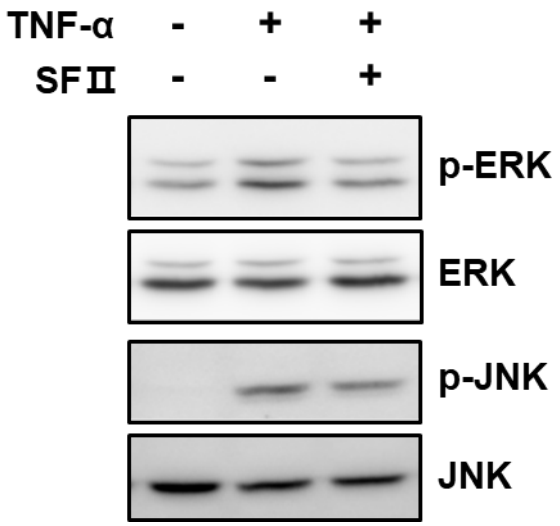
Supplementary Table S1. Primer sequences used for RT-qPCR analysis of *MMP-1* and *GAPDH* mRNA expression.

Gene	Nucleotide sequence	Nucleotide position	Annealing temperature (°C)	GenBank accession number
MMP-1	F: 5'-GTACTGATATAATTTAGTTC-3' R: 5'-GTTATCCCTTGCCTATCTAG-3'	1656-1675 1889-1908	45	NM_002421
GAPDH	F: 5'-ACTGCTTAGCACCCCTGGCCA-3' R: 5'-TTGGCAGTGGGGACACGGAAG-3'	488-508 720-740	62	BC023632



Supplementary Figure S1. Chemical structure of skullcapflavone II (5-hydroxy-2-[2-hydroxy-6-methoxyphenyl]-6,7,8-trimethoxychromen-4-one).



Supplementary Figure S2. Effect of skullcapflavone II on TNF-α–induced phosphorylation of ERK and JNK in foreskin fibroblasts.

Subconfluent foreskin fibroblasts were starved for 24 h in a serum-free medium, pre-incubated with (+) or without (-) 3 μM skullcapflavone II for 30 min in a serum-free medium, and stimulated with (+) or without (-) 1 ng/ml TNF-α for 10 min. Cell lysates were prepared and analyzed by Western blot using antibodies against the indicated molecules.