

Supplementary Materials.

Supplementary Figures

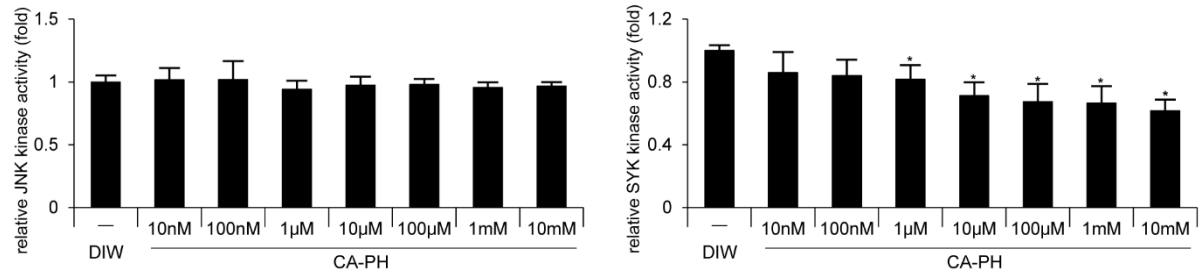


Figure S1. CA-PH does not inhibit JNK or weakly inhibits SYK. JNK or SYK activity was measured at the indicated concentrations of CA-PH ($n=3$). Kinase assay was performed using Kinase Enzyme System. All data represent mean $\pm$ S.E.M. Significance value was * $P \leq 0.05$.

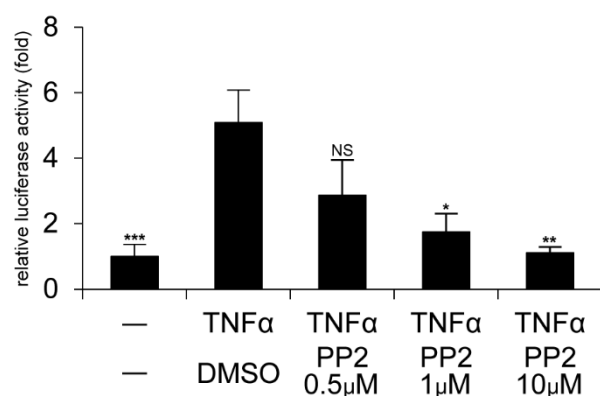


Figure S2. PP2, an inhibitor for Src-family kinases including Fyn, suppressed activity of promoter reporter containing NF- κ B binding sites in TNF α -treated HaCaT keratinocytes. DMSO was used as solvent for PP2. Following transfection of luciferase reporter vector containing the NF- κ B binding site and control *Renilla* luciferase expression vector into HaCaT keratinocytes, luciferase activity was measured in cell extracts (n=5). Reporter activity is represented as fold activation relative to *Renilla* luciferase activity. All data represent mean $\pm$ S.E.M. Significance values were * $P \leq 0.05$, ** $P \leq 0.01$, and *** $P \leq 0.005$.

Supplemental Tables

Table S1. Oligonucleotide primers used for quantitative PCR in this study.

Gene	Forward	Reverse
hRPLP0	AGCCCAGAACACTGGTCTC	ACTCAGGATTTCAATGGTGCC
hTSLP	TATGAGTGGGACCAAAAGTACCG	GGGATTGAAGGTTAGGCTCTGG
hIL-10	TCAAGGCGCATGTGAACTCC	GATGTCAAACCTCACTCATGGCT
hIL-13	GAGGATGCTGAGCGGATTCTG	CACCTCGATTTTGGTGTCTCG
hIL-25	CAGGTGGTTGCATTCTTGGC	GAGCCGGTTCAAGTCTCTGT
hREDD1	TGGGCAAAGAACTACTGCG	AGAGTTGGCGGAGCTAAACAG
mRPLP	AGATTCGGGATATGCTGTTGGC	TCGGGTCCTAGACCAGTGTTT
mTSLP	ACTGCAACTTCACGTCAATTACG	TTGCTCGAACTTAGCCCCCTT
mIL-10	GCTCTTACTGACTGGCATGAG	CGCAGCTCTAGGAGCATGTG
mIL-13	CCTGGCTCTTGCTTGCCTT	GGTCTTGTGTGATGTTGCTCA
mIL-25	ACAGGGACTTGAATCGGGTC	TGGTAAAGTGGGACGGAGTTG
mREDD1	TGGTGCCACCTTTCAGTTG	GTCAGGGACTGGCTGTAACC

Table S2. Oligonucleotide primers used for ChIP in this study.

Binding Sites	Forward	Reverse
NF- κ B #1 (hTSLP)	TGAGCATATGAAAACCAAGAAG	TTGAAAAATAGTTGCCAAAAGGA
NF- κ B #2 (hTSLP)	GGGCAAAGCAAAAAGGAGGAAG	TAAACGCCTACGGGCTCTTT
NF- κ B (hIL-10)	GGGAAGGTGAAGGCTCAATCA	GTGTTGCTCTACCTGGGGAA
NF- κ B (hIL-13)	TGATCCTGCAGAGACTGGTGA	GTATGGGCCATCCTTCTGGGA
NF- κ B (hIL-25)	TGGACCTGCTGAGGCTGAGT	GTTGGCTGGATGGGCAAGGT

Table S3. R² and AICc values analyzed by SigmaPlot.

Rank by AICc	Equation R ²	AICc
Competitive (Full)	0.99418	-134.083
Mixed (Full)	0.99418	-129.719
Noncompetitive (Full)	0.9902	-125.75
Uncompetitive (Full)	0.98316	-117.096