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Supplementary Data

Ovalicin attenuates atopic dermatitis symptoms by inhibiting IL-31 signaling and intracellular calcium influx

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Supplementary Table 1 Sequences of the primers used for Real-time RT-PCT	
Gene name	Sequence $(5' \rightarrow 3')$
IL31RA	Forward: AGG CCT TTG CTG CCA CTT TC
	Reverse: CAG GAA GCA TTC CCA GGC TC
OSMR	Forward: GTA AGG TGG ACC GAG GAG ATG
	Reverse: GAG CAA GCC AGT GTC TCT C
HRH2	Forward: GCA GTC TGA CTA ACT GCT TC
	Reverse: GGC TGA TCA TGA AGA GGT TG
IFNG	Forward: GCG CAA GGC GAT AAA TGA AC
	Reverse: CTG ACT CCT TTT CCG CTT CC
IL4	Forward: TCA CCA GCA CCT TTG TCC AC
	Reverse: CGC TTG TGT TCT TTG GAG CA
TRPVI	Forward: GGC TGT CTT CAT CAT CCT GCT GCT
	Reverse: GTT CTT GCT CTC CTG TGC GAT CTT GT
GAPDH	Forward: ATC ACT GCC ACC CAG AAG AC
	Reverse: TCA GCT CAG GGA TGA CCT TG

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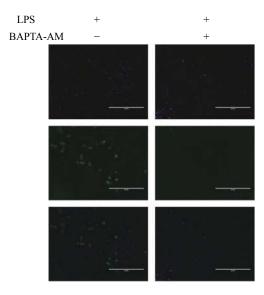


Fig. 1 Chelation of intracellular calcium by BAPTA-am treatment in LPS-pretreated DH82 cells. Representative image of Fluo-4AM and DAPI staining in LPS-pretreated DH82 cells with/without BAPTA-AM treatment. Scale bar: 400 μm. LPS: lipopolysaccharide.

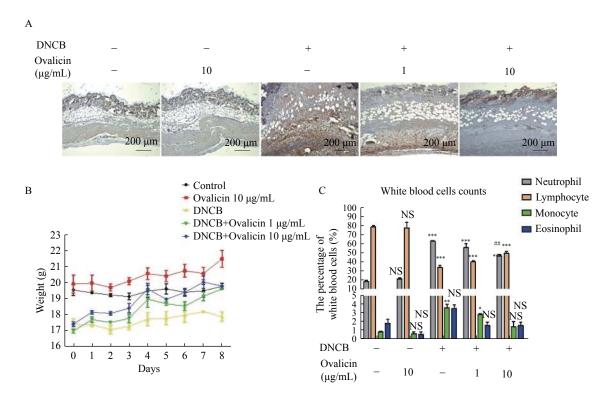


Fig. 2 Macrophage infiltration, weight gain and differential WBC counts in experimental mice. A: Representative immunohistochemical staining for IBA1 in skin tissue of DNCB-untreated control and 0.1% DNCB solution-treated AD mice with/without ovalicin treatment. Scale bar: 200 μm. B: Mean weight of DNCB-untreated control and 0.1% DNCB solution-treated AD mice with/without ovalicin treatment. Data are presented as mean±SEM (n=5). C: Percentage of differential WBC counts, including neutrophils, lymphocytes, monocytes, and eosinophils in DNCB-untreated control and 0.1% DNCB solution-treated AD mice with/without ovalicin treatment. Error bars indicate SEM (n=5). **P<0.01 and ***P<0.001 vs. DNCB-untreated control mice without ovalicin treatment. ##P<0.01 vs. DNCB-treated mice without ovalicin treatment. Statistical analysis was conducted by ANOVA and Tukey's test (pairwise) for comparison with samples. WBC: white blood cell; DNCB: 2,4-dinitrochlorobenzene.