

Table S1. Primers used in current study.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')	Accession number
NLRP3	CAGCACGAACCAGAATCTCA	AGCAGCAGTGTGATGTGAGG	NM_001256770.2
ASC	ACAACAAACCAGCACTGCAC	CTGCCTGGTACTGCTCTTCC	AB873106.1
Caspase-1	TTTGAAGGACAAACCCAAGG	TGGGCTTTCTTAATGGCATC	NM_214162.1
TNF- $\alpha$	CGCTCTTCTGCCTACTGCACTT C	CTGTCCCTCGGCTTTGACATT	JF831365.1
IL-6	CCAGGAACCCAGCTATGAAC	CTGCACAGCCTCGACATT	AF518322.1
IL-18	CTGCTGAACCGGAAGACAAT	CTCAAACACGGCTTGATGTC	AF191088.1
IL-1 $\beta$	CCAAAGAGGGACATGGAGAA	TTATATCTTGGCGGCCTTTG	NM_001302388.2
Nrf2	CACCACCTCAGGGTAATA	GCGGCTTGAATGTTTGTC	XM_021075133.1
NQO1	GTGGAAGCCGCAGACCTTGTC	CATGGCAGCGTATGTGTAAGCAA AC	NM_001159613.1
HO-1	AGGCTGAGAATGCCGAGTTC	TGTGGTACAAGGACGCCATC	NM_001004027.1
ZO-1	ACCCACCAAACCCACCAA	CCATCTCTTGCCAAACTATC	XM_013993251.1
Occludin	GCTGGAGGAAGACTGGAT	ATCCGCAGATCCCTTAAC	NM_001163647.2
$\beta$ -actin	CTGCGGCATCCACGAAACT	AGGGCCGTGATCTCCTTCTG	ON164673.1

Table S2. siRNAs fragment sequence used in current study.

Gene	Forward primer (5'-3')	Reverse primer (5'-3')
<i>si</i> NLRP3	GCCUUAAGUUGUGUGAAAUTT	AUUUCACACAACUUAAGGCTT
<i>si</i> Nrf2	GCCCAUUGAUCUCUCUGAUTT	AUCAGAGAGAUCAAUGGGCTT

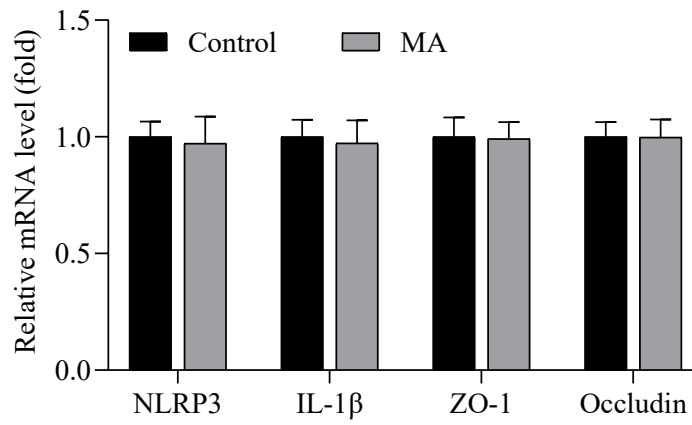


Figure S1 Effect of MA treatment on mRNA expression of NLRP3, IL-1 $\beta$ , ZO-1 and Occludin. IPEC-1 cells ( $1 \times 10^5$  cells/mL, 2 mL) were inoculated in 6-well plates, and cultured at 37°C for 24 h. Two groups were set up: Control group (cells only) and MA group (100  $\mu$ g/mL MA treatment for 12 h). Cells were collected to extract RNA for qPCR detection.