

Table S1. Primer Sequences for Quantitative Real-Time PCR (for mice genotyping).

genes	forward primer	reverse primer
Wide type	GCCTGAGAGCTGTAGGCCC	GGAATGGAAAATAGCTCCTGCC
Mutant	GCCTGAGAGCTGTAGGCCC	GACAGTATCGGCCTCAGGAA

Table S2. Primer Sequences for Quantitative Real-Time PCR (for Caco-2 cells).

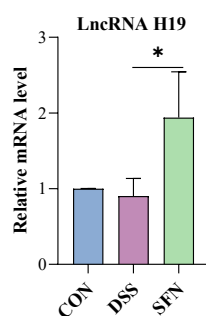
genes	forward primer	reverse primer
<i>Il-1β</i>	CTGTACCTGTCCTGCGTGTT	GGGAAGTGGGCAGACTCAAA
<i>ZO-1</i>	AAAGGCGGATGGTGTCTACAA	CGCCTTCTGTGTCTGTGTCT
<i>STAT3</i>	TGCTGGAGGAGAGAATCGT	TTAGTAGTGAAGTGGACGCCG
	G	
LncRNA <i>H19</i>	TGGTTGGAGTTGTGGAGACG	ATGGGGCGTAATGGAATGCT
<i>Nrf2</i>	GTGTGGCATCACCAGAACAC	GACACTTCCAGGGGCACTAT
<i>GAPDH</i>	TCCAAAATCAAGTGGGGCG	AAATGAGCCCCAGCCTTCTC
	A	

Table S3. Disease activity index of mice in each group at each time point.

Group	Day16	Day18	Day20	Day22	Day23	Day25	Day35
WT-NC	0.08±0.20 ^b	0.42±0.38 ^b	0.75±0.42 ^c	0.75±0.61 ^b	1.08±0.49 ^b	0.58±0.49 ^b	0.67±0.61 ^d
WT-	2.86±0.63 ^a	3.14±0.90 ^a	4.36±1.31 ^b	8.86±1.07 ^a	9.93±1.30 ^a	8.14±1.11 ^a	6.79±0.86 ^a
DSS							
WT-	2.93±0.84 ^a	3.00±0.50 ^a	5.93±1.90 ^{ab}	9.00±1.73 ^a	9.50±1.38 ^a	8.63±2.29 ^a	3.70±2.56 ^{bc}
SFN							
KO-NC	1.20±0.84 ^{ab}	0.30±0.45 ^b	0.50±0.61 ^c	1.40±1.39 ^b	1.00±0.00 ^b	0.50±0.50 ^b	1.40±0.22 ^{bd}
KO-DSS	3.07±0.98 ^a	4.14±1.73 ^a	6.50±3.04 ^{ab}	9.50±3.56 ^a	11.4±0.89 ^a	8.75±1.06 ^a	5.17±1.04 ^{ac}
KO-SFN	2.50±0.45 ^a	4.83±0.61 ^a	7.25±3.06 ^a	11.2±0.84 ^a	11.6±0.89 ^a	8.00±0.71 ^a	3.50±0.00 ^{acd}

(Different lowercase letters mean significant difference among groups, $P<0.05$).

A



B

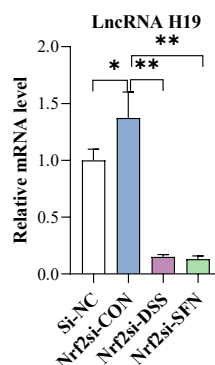


Fig.S1. Effect of SFN on lncRNA H19 expression in DSS-induced Caco-2 cell monolayer barrier injury model.