

Supplementary Table 1. Primer sequences for real-time PCR

Gene	Primer	Primer sequences
β -actin	Forward	5'-GTGACGTTGACATCCGTAAAGA-3'
	Reverse	5'-GCCGGACTCATCGTACTCC-3'
E-selectin	Forward	5'-GCCAGCCCTCTACCAGAATG-3'
	Reverse	5'-TGAAGAGAGCACCTCCACCT-3'
GM-CSF	Forward	5'-TTTACTTTTCCTGGGCATTG-3'
	Reverse	5'-TAGCTGGCTGTCATGTTCAA-3'
IL-1	Forward	5'-AGCTTCAGGCAGGCAGTATC-3'
	Reverse	5'-AAGGTCCACGGGAAAGACAC-3'
IL-5	Forward	5'-GAAAGAGACCTTGACACAGCTG-3'
	Reverse	5'-GAACTCTTGCAAGTAATCCAGG-3'
IL-6	Forward	5'-ATGGATGCTACCAAAGTGGAT-3'
	Reverse	5'-TGAAGGACTCTGGCTTTGTCT-3'
IL-8	Forward	5'-TTGGAGCCAAGGCAAGAACA-3'
	Reverse	5'-GAGGCATCCGGTTCACAGAA-3'
iNOS	Forward	5'-GTCAACTGCAAGAGAACGGAGAC-3'
	Reverse	5'-GAGCTCCTCCAGACGGGTAGGCTTG-3'
MMP-9	Forward	5'-GCTCCCGAGTGTTTTCCAC-3'
	Reverse	5'-CGTAGCCTGGAAACAGCGAT-3'
MUC5AC	Forward	5'-CCATGCAGAGTCCTCAGAACAA-3'
	Reverse	5'-TTACTGGAAAGGCCCAAGCA-3'
RPS3	Forward	5'-TGACCGCAGTTGTCCAGAAG-3'
	Reverse	5'-ACCGAAGCACACCATAGCAG-3'
TNF- α	Forward	5'-CCAGTGTGGGAAGCTGTCTT-3'
	Reverse	5'-AAGCAAAAGAGGAGGCAACA-3'

Supplementary Table 2. Complete blood count and chemical analysis of mice serum

Peripheral Blood Count	Units	Saline	HDM	HDM+Con	HDM+RPS3
White blood cell	K/uL	1.80±0.31	2.05±0.36	2.16±0.29	1.91±0.21
Neutrophil	K/uL	0.74±0.13	0.67±0.07	0.48±0.06	0.31±0.03
Lymphocyte	K/uL	0.96±0.14	1.24±0.55	1.05±0.37	0.74±0.26
Monocyte	K/uL	0.06±0.03	0.08±0.04	0.05±0.03	0.07±0.04
Eosinophil	K/uL	0.01±0.00	0.01±0.00	0.01±0.01	0.00±0.00
Basophil	K/uL	0.03±0.01	0.02±0.01	0.03±0.01	0.02±0.00
Red blood cell	M/uL	9.37±0.45	9.17±0.23	9.45±0.19	9.08±0.24
Hemoglobin	g/dL	15.70±0.78	14.63±0.46	15.40±0.06	14.97±0.38
Hematocrit	%	47.23±0.38	47.63±0.27	46.37±0.70	45.30±0.61
Mean corpuscular volume	fL	48.23±0.29	48.87±0.20	48.00±0.10	48.07±0.12
Mean corpuscular hemoglobin	pg	16.73±0.03	17.30±0.46	16.33±0.33	16.53±0.15
Mean corpuscular hemoglobin conc.	g/dL	34.70±0.26	35.30±0.74	34.03±0.69	34.37±0.26
Red blood cell distribution width	%	18.60±0.32	17.97±0.27	18.73±0.33	17.53±0.34
Platelet	K/uL	556.67±27.35	533.67±12.71	524.00±38.76	516.33±16.48
Mean platelet volume	fL	4.72±0.36	4.74±0.43	4.20±0.40	4.55±0.24
Kidney and Liver Toxicity	Units	Saline	HDM	HDM+Con	HDM+RPS3
Creatinine	mg/dl	0.19±0.01	0.16±0.02	0.15±0.01	0.17±0.01
AST	U/L	141.00±16.69	137.43±13.05	138.93±16.38	155.27±12.13
ALT	U/L	28.60±2.45	30.07±5.42	34.90±1.18	31.27±2.53