

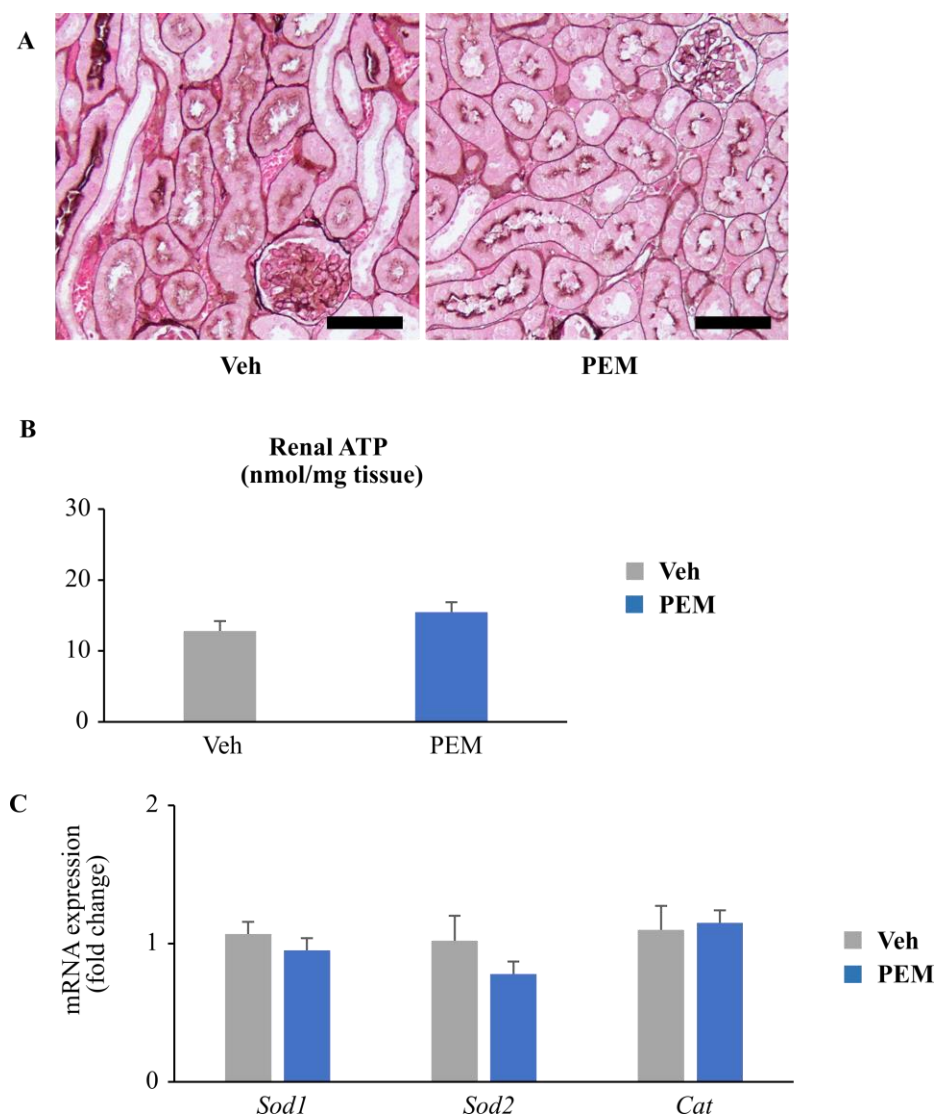
Supplementary Materials

Supplementary table S1. Results of blood tests in experiment 1.

	TP (g/dL)	ALB (g/dL)	ALT (IU/L)	TG (mg/dL)	HDL (mg/dL)	LDL (mg/dL)	BUN (mg/dL)	Cr (mg/dL)	FFA (mEq/L)
Veh	5.20 (± 0.12)	0.60 (± 0.03)	35.4 (± 4.02)	99.9 (± 12.8)	57.5 (± 2.68)	5.36 (± 0.30)	31.1 (± 0.89)	0.10 (± 0.01)	0.86 (± 0.13)
PEM	5.23 (± 0.07)	0.64 (± 0.02)	41.9 (± 4.48)	41.0 (± 4.15) [#]	70.1 (± 2.09) [#]	4.79 (± 0.29)	35.1 (± 1.22) [#]	0.10 (± 0.00)	0.78 (± 0.11)

Significant differences with the Veh group are indicated with # ($P < 0.05$). Abbreviations: TP, total protein; ALB, albumin; ALT, alanine aminotransferase; TG, serum triglyceride; HDL, high-density lipoprotein; LDL, low-density lipoprotein; BUN, blood urea nitrogen; Cr, creatinine; FFA, free fatty acid.

Supplementary figure S1. Other results in experiment 1.

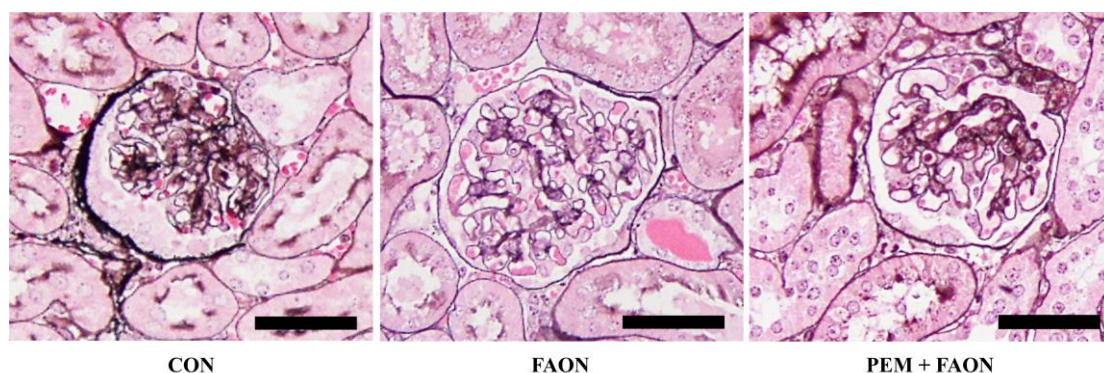


Other results in experiment 1. (A) Light microscopic analysis of tubular lesions. The sections were stained with periodic acid-methenamine-silver. Scale bar = 100 μ m. (B) Renal adenosine triphosphate content. (C) Renal expressions of mRNA related to antioxidant agents. In those analysis, any obvious or significant differences was not detected between the Veh and PEM group.

Supplementary table S2. Results of blood tests in experiment 2.

	TP (g/dL)	ALB (g/dL)	ALT (IU/L)	TG (mg/dL)	HDL (mg/dL)	LDL (mg/dL)
CON	4.98 (± 0.11) #	0.53 (± 0.02) #	32.0 (± 4.86) #	110 (± 12.1)	59.9 (± 2.39) #	8.79 (± 1.97) #
FAON	10.6 (± 0.39)	1.51 (± 0.07)	13.3 (± 2.06)	80.3 (± 14.3)	16.4 (± 1.94)	2.62 (± 0.51)
PEM + FAON	10.2 (± 0.40)	1.50 (± 0.08)	15.8 (± 4.66)	34.9 (± 10.6) #	22.3 (± 3.00)	1.50 (± 0.17)

Significant differences with the FAON group are indicated with # ($P < 0.05$). Abbreviations: TP, total protein; ALB, albumin; ALT, alanine aminotransferase; TG, serum triglyceride; HDL, high-density lipoprotein; LDL, low-density lipoprotein.

Supplementary figure S2. Pathological findings in glomeruli in experiment 2.

Light microscopic analysis of glomeruli. The sections were stained with periodic acid-methenamine-silver. Scale bar = 100 μm .

Supplementary table S3. Primers used in mRNA analyses.

Gene			Primer		GenBank accession no.
<i>Ppara</i>	Forward	5'-	CCTCAGGGTACCACTACGGAGT	-3'	NM_011144
	Reverse	5'-	GCCGAATAGTTCGCCGAA	-3'	
<i>Cpt2</i>	Forward	5'-	ATCGTACCCACCATGCACTAC	-3'	NM_009949
	Reverse	5'-	CTGTCATTCAAGAGAGGCTTCTG	-3'	
<i>Acadvl</i>	Forward	5'-	GCGTGTGCTCCGAGATATTC	-3'	NM_017366
	Reverse	5'-	CCAGTGAGTTCCTTTCCTTTG	-3'	
<i>Acadm</i>	Forward	5'-	TGCTTTTGATAGAACCAGACCTACAGT	-3'	NM_007382
	Reverse	5'-	CTTGGTGCTCCACTAGCAGCTT	-3'	
<i>Hadha</i>	Forward	5'-	CCTTTATCCTGCCCCCTTTG	-3'	NM_178878
	Reverse	5'-	GCGATTCAGCAAGATAACCA	-3'	
<i>Acox1</i>	Forward	5'-	TGGTATGGTGTCTGTAATTGAATGAC	-3'	NM_015729
	Reverse	5'-	AATTTCTACCAATCTGGCTGCAC	-3'	
<i>Ehhadh</i>	Forward	5'-	CGATACTCTTCCCCCACTACCA	-3'	NM_023737
	Reverse	5'-	CAGTTACCAACAACGACTCCAATC	-3'	
<i>Acaa1</i>	Forward	5'-	TCTACGGTCAACAGACAGTGTTC	-3'	NM_146230
	Reverse	5'-	GGCCATGCCAATGTCATAAGA	-3'	
<i>Sod1</i>	Forward	5'-	AAGCGGTGAACCAGTTGTGTT	-3'	NM_011434
	Reverse	5'-	AGCCTTGTGTATTGTCCCCATACT	-3'	
<i>Sod2</i>	Forward	5'-	TCCCAGACCTGCCTTACGACTAT	-3'	NM_013671
	Reverse	5'-	GGTGGCGTTGAGATTGTTCA	-3'	
<i>Cat</i>	Forward	5'-	CGACCAGGGCATCAAAACTT	-3'	NM_009804
	Reverse	5'-	AACGTCCAGGACGGGTAATTG	-3'	
<i>Actb</i>	Forward	5'-	GCCTTCCTTCTTGGGTATGG	-3'	NM_007393
	Reverse	5'-	GTGTTGGCATAGAGGTCTTTACG	-3'	

Abbreviations: *Ppara* (PPAR α), peroxisome proliferator activated receptor alpha; *Cpt2* (CPT2), carnitine palmitoyl-transferase 2; *Acadvl* (VLCAD), very long-chain acyl-CoA dehydrogenase; *Acadm* (MCAD), medium-chain acyl-CoA dehydrogenase; *Hadha* (TP α), mitochondrial trifunctional protein α subunits; *Acox1* (ACOX), acyl-CoA oxidase; *Ehhadh* (PH), L-peroxisomal bifunctional protein; *Acaa1* (PT), peroxisomal 3-ketoacyl-CoA thiolase; *Sod1* (SOD1), superoxide dismutase 1; *Sod2* (SOD2), superoxide dismutase 2; *Cat* (Catalase); *Actb* (β -actin).