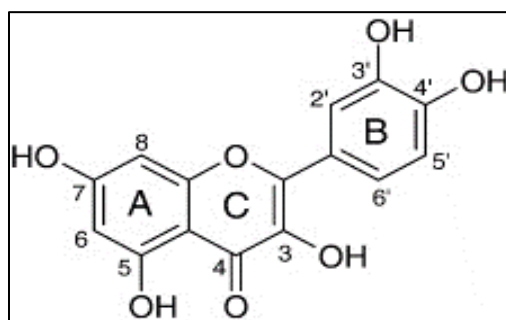


## Supplementary



**Figure S1.** Chemical structure of quercetin.

**Table S1.** Ingredients of basal diet.

Ingredients	g/kg diet
Corn flour	529.5
Casein	200
Sucrose	100
Soybean oil	70
Cellulose	50
Mineral mix	35
Vitamin mix	10
L-cystine	3
Choline	2.5

**Table S2.** Antibodies, sources, working dilutions, and conditions for antigen retrieval (10 mM citrate buffer at pH 6.0).

Antibody	Source	Dilution	Heating Condition for 20 min
Rabbit polyclonal anti-Caspase-3	9662, Cell Signaling Technology, Danvers, MA, USA	1:300	105 °C
Rabbit polyclonal anti-Bcl2	SC-492, Santa Cruz Biotechnology, Santa Cruz, CA, USA	1:300	90 °C
Rabbit polyclonal anti-Ki67	GTX20833, GeneTex Co., Alton Pkwy Irvine, CA, USA	1:150	105 °C
Rabbit polyclonal anti-podocin	29040, IBL, Gunma, Japan	1:800	105 °C
Rabbit polyclonal anti-insulin	ab63820, Abcam, Cambridge, UK	1:500	105 °C
Rabbit polyclonal anti-glucagon	ab137817, Abcam	1:500	105 °C

**Table S3.** Primers' sequences for RT-PCR.

Genes	Genes Forward (5'-3')	Reverse (5'-3')	Accession No./References
<i>Bax</i>	GCGAATTGGCGATGAACTG	ATGGTTCTGATCAGCTCGGG	NM_017059/[57]
<i>Bcl2</i>	GATTGTGGCCTTCTTTGAGT	ATAGTTCCACAAAGGCATCC	NM_016993/[58]
<i>CASP-3</i>	TTTGCGCCATGCTGAAACT	ACGAGTGAGGATGTGCATGAATT	NM_012922.2
<i>GCLC</i>	CCACTGTCCAAGGTGACG	CTTGCTACACCCATCCACCA	NM_012815
<i>GCLM</i>	TCAAGCTCACAACCTCA	CAAACCACCACATTACGCC	NM_017305

<i>IL-1<math>\beta</math></i>	CACCTCTCAAGCAGAGCACAG	GGGTTCATGGTGAAGTCAAC	NM_031512.2/[59]
<i>IL-6</i>	CCACCAGGAACGAAAGTCAAC	TTGCGGAGAGAACTTCATAGCT	NM_012589.2
<i>IL-8</i>	TGACCATGAGACACTGTGGC	GAAGAGCACGGGTCCTTTGA	[60]
<i>NF-<math>\kappa</math>B</i>	TCTCAGCTGCGACCCCG	TGGGCTGCTCAATGATCTCC	AF079314
<i>p21</i>	GTGAGACACCAGAGTGCAAGA	ACAGCGATATCGAGACACTCA	[61]
<i>p53</i>	CACAGTCGGATATGAGCATC	GTCGTCCAGATACTCAGCAT	
<i>SOD1</i>	CATTCCATCATTGGCCGTA	CCACCTTTGCCCAAGTCATC	BC082800.1
<i>TNF-<math>\alpha</math></i>	CAGCCGATTTGCCATTCA	AGGGCTCTTGATGGCAGAGA	L19123.1
<i>GAPDH</i> (Housekeeping)	TCAAGAAGGTGGTGAAGCAG	AGGTGGAAGAATGGGAGTTG	NM_017008.4/[62]

*Bax*, Bcl-2-associated X protein; *Bcl-2*, B-cell lymphoma 2; *CASP-3*, caspase-3; *GCLC*, glutamate-cysteine ligase catalytic subunit; *GCLM*, glutamate-cysteine ligase regulatory subunit; *IL-1 $\beta$* , interleukin-1beta; *IL-6*, interleukin-6; *IL-8*, interleukin-8; *NF- $\kappa$ B*, Nuclear factor-kappa B; *SOD1*, Cu, Zn-superoxide dismutase; *TNF- $\alpha$* , tumor necrosis factor-alpha; and *GAPDH*, glyceraldehyde 3-phosphate dehydrogenase.