

Table SI. Sequences of siRNAs.

siRNA name	Sequence (5'-3')
PGC-1 α siRNA-1	Sense: GAACAUAUUCGAGAAGAUATT
	Antisense: UAUCUUCUCGAAUAUGUUCTT
PGC-1 α siRNA-2	Sense: CGGAUAUACUCAUUAACAUTT
	Antisense: AUGUAAAUGAGUAUAUCCGTT
PGC-1 α siRNA-3	Sense: CAGUAGAUCCUCUUAAGATT
	Antisense: UCUUGAAGAGGAUCUACUGTT
ATF5 siRNA-1	Sense: GCUCGUAGACUAUGGGAAA(dT)(dT)
	Antisense: UUUCCCAUAGUCUACGAGC(dT)(dT)
ATF5 siRNA-2	Sense: GGAUACCCUGGACUUGCUA(dT)(dT)
	Antisense: UAGCAAGUCCAGGGUAUCC(dT)(dT)
ATF5 siRNA-3	Sense: GGGAGAUCAGUAUGUGAA(dT)(dT)
	Antisense: UUCACAUACUGGAUCUCCC(dT)(dT)
Negative siRNA	Sense: UUC UCC GAA CGU GUC ACG UTT
	Antisense: ACG UGA CAC GUU CGG AGA ATT

PGC-1 α , peroxisome proliferative activated receptor γ coactivator 1 α ; ATF5, activating transcription factor 5; siRNA, small interfering RNA.

Table SII. Sequences of the primers used in reverse transcription-quantitative PCR.

Gene name	Primer sequence (5'-3')
CTRP3	F: AGCCATGCTAAAACGGGGAC
	R: AGGTGAAGAAATACACGCCTGA
PGC-1 α	F: AAGTGGTGTAGCGACCAATCG
	R: AATGAGGGCAATCCG TCTTCA
ATF5	F: TCGGAGCGACATCGGTTTTA
	R: AGCGTTAAGGGAGATGCTTCA
ClpP	F: TCATGGGCCCGATTGATG
	R: GTGCAGATGGGGTTCAGAATA
Hsp60	F: GGCTATCGCTACTGGT
	R: GCAAGTCGCTCGTTCA
LonP1	F: CAGGCCACAGAAGGATTCACA
	R: GACCTCTTTCTTGCCTCGCT
ND1	F: TTATCCTCTTATCCGTCC TC
	R: TGTTAAGTCGAAGGGAGC
β -actin	F: CGTGAAAAGATGACCCAGATCA
	R: CACAGCCTGGATGGCTACGTA

CTRP3, C1q-tumor necrosis factor-related protein-3; PGC-1 α , peroxisome proliferative activated receptor γ coactivator 1 α ; ATF5, activating transcription factor 5; ClpP, proteolytic subunit of the ATP-dependent Clp protease; Hsp60, 60 kDa heat shock protein; LonP1, Lon protease homolog; ND1, NADH dehydrogenase 1; F, forward; R, reverse.

Table SIII. List of antibodies used in immunofluorescent staining.

Antibody	Host species	Dilution	Supplier	Cat. no.
CTRP3	Rabbit	1:50	Abcam	ab36870
SIRT1	Rabbit	1:50	ABclonal Biotech Co., Ltd.	A0230
PGC-1 α	Rabbit	1:50	ABclonal Biotech Co., Ltd.	A12348
ATF5	Rabbit	1:30	ABclonal Biotech Co., Ltd.	A3563
NeuN	Mouse	1:400	Abcam	ab104224
GFAP	Mouse	1:200	Cell Signaling Technologies, Inc.	3670
Iba1	Goat	1:200	Abcam	ab5076
CoraLite594-conjugated donkey anti rabbit	Donkey	1:400	Proteintech Group, Inc.	SA00013-8
CoraLite488-conjugated donkey anti-mouse	Donkey	1:200	Proteintech Group, Inc.	SA00013-5
FITC-conjugated donkey anti goat	Donkey	1:200	ABclonal Biotech Co., Ltd.	AS032

Table SIV. List of antibodies used in western blotting.

Antibody	Host species	Dilution	Supplier	Cat. no.
CTRP3	Rabbit	1:1,000	Abcam	ab36870
SIRT1	Rabbit	1:500	ABclonal Biotech Co., Ltd.	A0230
PGC-1 α	Rabbit	1:1,000	ABclonal Biotech Co., Ltd.	A12348
NRF1	Rabbit	1:1,000	Abcam	ab175932
TFAM	Rabbit	1:1,000	Abcam	ab131607
β -actin	Rabbit	1:10,000	ABclonal Biotech Co., Ltd.	AC026
HRP-conjugated goat anti-rabbit	Goat	1:5,000	ABclonal Biotech Co., Ltd.	AS014

PGC-1 α , peroxisome proliferative activated receptor γ coactivator 1 α ; TFAM, mitochondrial transcription factor A; NRF1, nuclear respiratory factor 1; CTRP3, C1q-tumor necrosis factor-related protein-3.

Table SV. Commercial assay kits used in biochemical assays.

Kit	Companies	Cat. no.
Malondialdehyde	Nanjing Jiancheng Bioengineering Institute	A003-1-2
Protein carbonyl	Nanjing Jiancheng Bioengineering Institute	A087-1-2
Glutathione	Nanjing Jiancheng Bioengineering Institute	A006-1-1
Superoxide dismutase	Nanjing Jiancheng Bioengineering Institute	A001-3-2
Glutathione peroxidase	Nanjing Jiancheng Bioengineering Institute	A005-1-2