

Supplementary Table 1. List of primary antibodies utilized.

Antigen	Product number	Dilution	Manufacturer
β-actin	sc-47778	1:3000	Santa Cruz
GAPDH	MAB 374	1:3000	Millipore
αBcrystallin (HSPB5)	ADI-SPA-222	1:2000	Enzo Life Sciences
phospho-αBcrystallin (S59) (p-HSPB5)	ADI-SPA-227	1:1000	Enzo Life Sciences
4-hydroxynonenal	ab46545	1:1000	Abcam
HSP70 (HSP1A1)	ADI-SPA-810	1:2000	Enzo Life Sciences
HSP27 (HSPB1)	sc-1048	1:1000	Santa Cruz
phospho-HSP27 (p-HSPB1)	#2401	1:1000	Cell Signaling
ZnCuSOD (SOD1)	sc-101523	1:500	Santa Cruz
MnSOD (SOD2)	SOD-110	1:1000	Stressgen
CATALASE	sc-271803	1:1000	Santa Cruz
GPx1	bs-3882R	1:1000	Bioss Antibodies
TrxR1	sc-20147	1: 1000	Santa Cruz
p-NFκB p65	sc-166748	1: 1000	Santa Cruz
NFκB	sc-372	1: 1000	Santa Cruz

Supplementary Table 2. Sequences of the oligonucleotides used for RT-qPCR.

Target Gene	FW sequence	Rev sequence
<i>SOD1</i>	5'- AAAGATGGTGTGGCCGATGT - 3'	5'- GCCAATGATGCAATGGTCTCC - 3'
<i>SOD2</i>	5'- CCCTGGAACCTCACATCAAC - 3'	5'- GGTGACGTTTCAGGTTGTTCA - 3'
<i>TrxR1</i>	5'-ACAAGCCCTGCAAGACTCTC-3'	5'-AGCCCCAATTCAAAGAGCCA-3'
<i>GPx1</i>	5'-ACGATGTTGCCTGGAAC TTT-3'	5'-TCGATGTCAATGGTCTGGAA-3'
<i>HSP70</i>	5'- AGGGGCCTTTCCAAGATTGC - 3'	5'- GCAAACACAGGAAATTGAGAACT - 3'
<i>HSP27</i>	5'- GCAGGACGAACATGGCTACAT - 3'	5'- TGGAGGCAGCGTGTATTTC - 3'
<i>GAPDH</i>	5'- TGGTCACCAGGGCTGCTT - 3'	5'- CATGTAGTTGAGGTCAATGAAGG - 3'
<i>Cyclo A</i>	5'- GTCAACCCACCGTGTTCCT - 3'	5'- CTGCTGTCTTTGGGACCTTGT - 3'

Supplementary figure 1

