Supplementary materials

Tables

Table S1. Sequences of primers used in RT-qPCR for mRNA detections

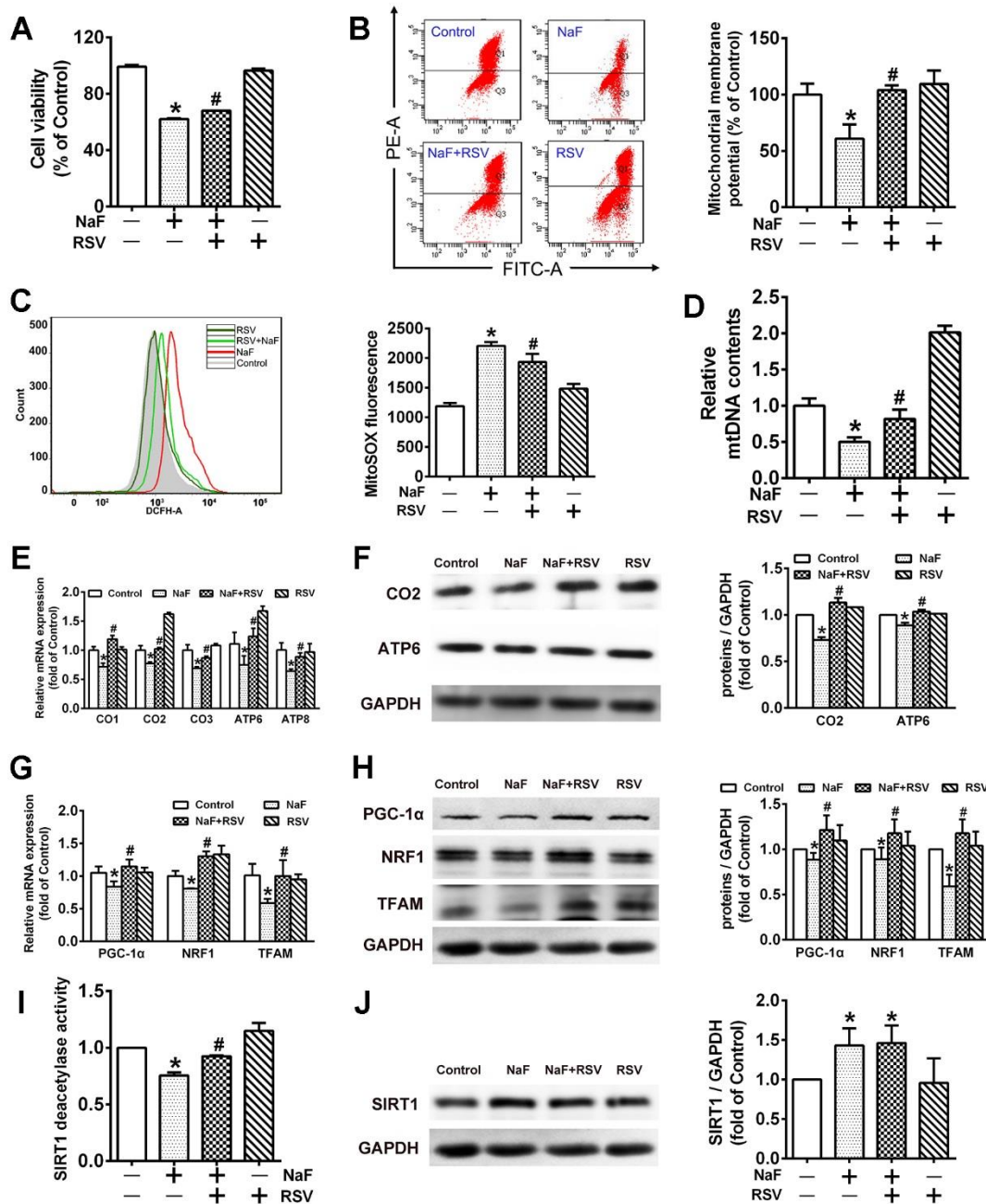| Gene name	Accession number	Sequence(5'－3')	
PGC-1α	NC_000004.12	F	ACACAGTCGCAGTCACAACAC
		R	GCAGTTCCAGAGAGTTCCACA
NRF1	NC_000007.14	F	CCAGTTTAGTGGGTGGTAGG
		R	CGGGAGCTTTCAAGACATTC
TFAM	NC_000010.11	F	AATGGATAGGCACAGGAAACC
		R	CAAGTATTATGCTGGCAGAAGTC
CO1	NC_012920.1	F	ACGTTGTAGCCCACTTCCAC
		R	TGGCGTAGGTTTGGTCTAGG
CO2	NC_012920.1	F	TACACCGACTACGGCGGACT
		R	AACGTCAAGGAGTCGCAGGT
CO3	NC_012920.1	F	CCCACCAATCACATGCCTAT
		R	GAGGAGCGTTATGGAGTGGA
ATP6	NC_012920.1	F	ACTGCAGGCCACCTACTCAT
		R	TTAAGGCGACAGCGATTTCT
ATP8	NC_012920.1	F	ATACTACCGTATGGCCCACCA
		R	GGGCTTTGGTGAGGGAGGTA
GAPDH	NC_000012.12	F	AGAAGGCTGGGGCTCATTTG
		R	AGGGGCCATCCACAGTCTTC

8 **Table S2. Sequences of primers used in RT-qPCR for measurement of relative**

9 **mtDNA contents**

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Gene name	Accession number		Sequence(5'—3')
ND4	NC_001665.2	F	CTCATCAGTAAGCCATATAGC
		R	TTCGTTCGTAGTTGGTGTT
GAPDH	NC_005103.4	F	GGAAGGACTCATGACCACAGT
		R	GCCATCACGCCACAGTTTC

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Figure S1. RSV protects against neurotoxic effects of NaF in SHSY5Y cells.

(A) Cell viability determined by CCK-8 assay. **(B, C)** Represent flow plots of MMP

levels (B) and mitoROS production (C) by flow cytometry. **(D)** RT-qPCR analysis of

relative mtDNA contents. **(E, F)** RT-qPCR (E) and immunoblot (F) analyses of

mRNA and protein levels of representative genes encoded by mtDNA. GAPDH was

used as the internal control. **(G, H)** RT-qPCR (G) and immunoblot (H) analyses of

20   mRNA and protein levels of PGC-1α, NFF1 and TFAM. **(I)** SIRT1 deacetylase

21   activity measured by SIRT1 assay kit. **(J)** Immunoblot analysis of SIRT1 expression.

22   SH-SY5Y cells were pretreated with 20 μM RSV and 2 h later were treated with 60

23   mg/L NaF for 24 h. Data information: Data are presented as mean ± SD. Data were

24   cumulative of at least three independent experiments. * $P < 0.05$ is considered

25   significant compared with Control and [#] $P < 0.05$ is significantly different from NaF

26   group by one-way ANOVA test.