

Supplementary

Table S1

The composition of the two-type diets.

	Normal liquid diet (L)	Lieber-DeCarli liquid diet (L)
Total energy (Kcal/L)	1000	1000
Alcohol (%)	0.00	28.00
Protein (%)	18.00	18.00
Carbohydrate (%)	47.00	19.00
Fat (%)	35.00	35.00
Folic acid (ppm)	2	2

Table S2

After 12 weeks of intervention, the nutritional data and folic acid intake of mice in each group were as follows (Take a body weight of 23g as an example):

	Energy (12 weeks)	FA intake (12 weeks)
Control group	2100 kcal	4200 µg
Model group	2100 kcal	4200 µg
Idebenone group	2100 kcal	4200 µg
L-FA group	2100 kcal	8340 µg
H-FA group	2100 kcal	12480 µg

Table S3

The qRT-PCR primer sequences.

Gene	Forward (5' to 3')	Reverse (5' to 3')
<i>mtDNA-Dloop</i>	AATCTACCATCCTCCGTG	GACTAATGATTCTTCACCGT
<i>ATM</i>	ACTGGTGTGAAGTATCTCAGC	TTGACAGCCAGAGACTTGAGG
<i>CHK2</i>	CAGTATCAGGGTTCGTCCAGCT	TATCTCTCCCAAACCAGTAGTTGTC
<i>P53</i>	GAAGTCCTTTGCCCTGAAC	CTAGCAGTTTGGGCTTTCC
<i>PGC-1α</i>	ATACCGCAAAGAGCACGAGAAG	CTCAAGAGCAGCGAAAGCGTCACAG
<i>β-actin</i>	CATTGCTGACAGGATGCAGAAGG	TGCTGGAAGGTGGACAGTGAGG