

Table S1. Primer sequences for RT-qPCR

Gene Name	Forward Primer (5' to 3')	Reverse Primer (5' to 3')
Cox4i1 (Rat)	CGGGCACATGGGAGTGTGTGAAG	CGGTACAATTGGACTTTCTCATCC
Cox6a1 (Rat)	GAGGAGGGTTCAGCTCGTATT	TTCATAGCCAGTCGGAAGCG
Cox6a2 (Rat)	TGACCTTTGTGCTGGCTCT	GAAGGGCTTGGTTCGGAT
Mt-nd1 (Rat)	CACCCCCTTATCAACCTCAA	ATTTGTTTCTGCGAGGGTTG
Ndufa4 (Rat)	TGCAGGAGCACCTGAGTCAGT	CAAGGAAGGCACCGGATCT
Ndufb8 (Rat)	TGAACCGATACTGGGACCTAGAC	AAGCCACAAAGCCGAAGAGATGTC
GAPDH (Rat)	GAAGGTCGGTGTGAACGGAT	CCCATTGATGTTAGCGGGAT
Cox4i1 (Mouse)	ATTGGCAAGAGAGCCATTCTAC	CACGCCGATCAGCGTAAGT
Cox6a1 (Mouse)	TCAACGTGTTCTCTCAAGTCGC	AGGGTATGGTTACCGTCTCCC
Cox6a2 (Mouse)	CTGCTCCCTTAACTGCTGGAT	GATTGTGAAAAGCGTGTGGT
Mt-nd1 (Mouse)	TCTAATCGCCATAGCCTTCC	GGTTGTAAAGGGCGTATTGG
Ndufa4 (Mouse)	GCATCCAGCTTGATTCTCT	GTTTGCTGTAGTCCACATTAC
Ndufb8 (Mouse)	GTGGCGGCAACGTACAAGTAT	GAATCCGAGCTGCATTGTCAG
GAPDH (Mouse)	TGGATTGGACGCATTGGTC	TTGCACTGGTACGTGTTGAT

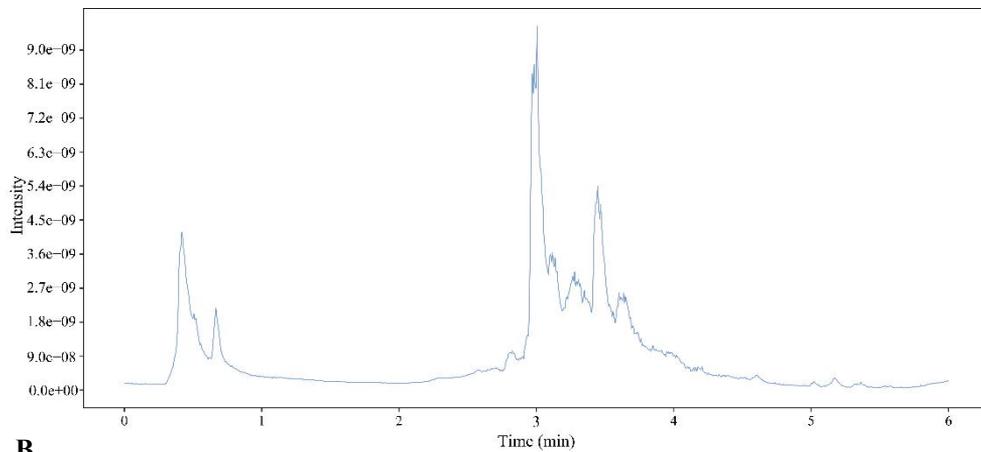
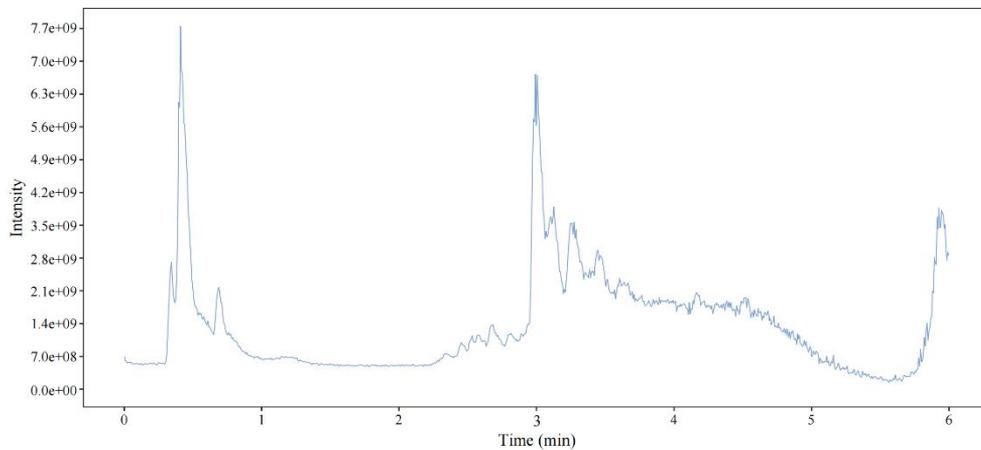
Table S2. Components of Corn Silk Extract Identified by LC-MS

ID	Name	m/z	RT	Formula	CAS
1	8-Hydroxykaempferol	301.0346	207.6	C15H10O7	527-95-7
2	3-Methylbutanamine	88.1119	357	C5H13N	107-85-7
3	Isorhamnetin-3-O-neohesperidoside	625.1752	186.2	C28H32O16	55033-90-4
4	Narcissin	625.1752	186.2	C28H32O16	604-80-8
5	Quercetin	303.0494	207.1	C15H10O7	117-39-5
6	2-(2,6-dihydroxyphenyl)-3,5,7-trihydroxy-chromone	303.0494	207.1	C15H10O7	92519-95-4
7	Levulinic acid	115.0398	40.5	C5H8O3	123-76-2
8	Isorhamnetin	315.0504	217.4	C16H12O7	480-19-3
9	Daltogen	132.1018	27.7	C6H15NO3	102-71-6
10	1,3,8,9-tetrahydroxybenzofurano[3,2-c]chromen-6-one	299.0193	208.1	C15H8O7	6468-55-9
11	2,4,8,9-tetrahydroxybenzofuro[3,2-c]chromen-6-one	299.0193	208.1	C15H8O7	350681-33-3
12	Cyanidin	285.0399	219.8	C15H11O6	13306-05-3
13	Betaine	118.0861	25.4	C5H11NO2	107-43-7
14	Citric Acid	191.0194	27.1	C6H8O7	77-92-9
15	Choline	104.1069	23.7	C5H14NO	62-49-7
16	Sorbose	203.0525	23.7	C6H12O6	87-79-6
17	Glucose	203.0525	23.7	C6H12O6	492-62-6
18	Galactose	203.0525	23.7	C6H12O6	10257-28-0
19	Tagatose	203.0525	23.7	C6H12O6	87-81-0
20	Allose	203.0525	23.7	C6H12O6	39392-62-6

Table S2 (Continued). Components of Corn Silk Extract Identified by LC-MS

ID	Name	m/z	RT	Formula	CAS
21	Malic acid	133.014	26.3	C4H6O5	6915-15-7
22	Phenylalanine	166.0862	41	C9H11NO2	63-91-2
23	tricetin	303.0497	227.3	C15H10O7	520-31-0
24	6-Hydroxyluteolin 7-glucoside	465.1021	183.3	C21H20O12	54300-65-1
25	3,5,7-trihydroxy-2-[2-hydroxy-6- [(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6- (hydroxymethyl)tetrahydropyran-2-yl]oxy- phenyl]chromen-4-one	465.1021	183.3	C21H20O12	172428-47-6
26	Trehalose	365.1052	24.3	C12H22O11	99-20-7
27	Melibiose	365.1052	24.3	C12H22O11	60033-03-6
28	Maltose	365.1052	24.3	C12H22O11	69-79-4
29	Stachydrine	144.1018	25.4	C7H13NO2	4136-37-2
30	Isocitric acid	173.0088	27.5	C6H8O7	320-77-4
31	Kaempferol	287.0548	218.9	C15H10O6	520-18-3
32	Demethoxycapillarisin	287.0548	218.9	C15H10O6	61854-36-2
33	Scutellarein	287.0548	218.9	C15H10O6	529-53-3
34	(E)-3-(4-hydroxyphenyl)-N-[4-[(E)-3-(4- hydroxyphenyl)prop-2-enoyl]amino]butyl]prop-2- enamide	381.1805	197.9	C22H24N2O4	364048-94-2 37946-59-1
35	Lactate	89.0243	28	C3H6O3	50-21-5
36	Glyceraldehyde	89.0243	28	C3H6O3	56-82-6
37	Dihydroxyacetone	89.0243	28	C3H6O3	96-26-4
38	7,8-dimethoxychromen-2-one	207.0649	185.4	C11H10O4	2445-80-9
39	Phloroglucinol	127.0389	47.2	C6H6O3	108-73-6
40	3-Methylcyclohexanol	115.1117	117.1	C7H14O	591-23-1
41	Delphinidin-3-O-beta-glucopyranoside	463.087	184.4	C21H21O12	6906-38-3
42	3-[(2S,3R,4S,5R,6R)-3,5-dihydroxy-6- (hydroxymethyl)-4-[(2S,3R,4R,5R,6S)-3,4,5- trihydroxy-6-methyl-tetrahydropyran-2-yl]oxy- tetrahydropyran-2-yl]oxy-5,7-dihydroxy-2-(4- hydroxyphenyl)chromen-4-one	595.1656	203.8	C27H30O15	28447-29-2
43	Nicotiflorin	595.1656	203.8	C27H30O15	17650-84-9
44	7-[(2S,3R,4S,5S,6R)-4,5-dihydroxy-6- (hydroxymethyl)-3-[(2S,3R,4R,5R,6S)-3,4,5- trihydroxy-6-methyl-tetrahydropyran-2-yl]oxy- tetrahydropyran-2-yl]oxy-3,5-dihydroxy-2-(4- hydroxyphenyl)chromen-4-one	595.1656	203.8	C27H30O15	17353-03-6
45	1,3-dihydroxy-6-(hydroxymethyl)-8-methoxy- anthracene-9,10-dione	301.0705	213.4	C16H12O6	478-35-3
46	Pratensein	301.0705	213.4	C16H12O6	2284-31-3
47	5,6,7-trihydroxy-2-(4-methoxyphenyl)chromen-4- one	301.0705	213.4	C16H12O6	6563-66-2
48	Kaempferol 3-methyl ether	301.0705	213.4	C16H12O6	1592-70-7
49	Kaempferol-3-O-galactoside	449.1074	191.6	C21H20O11	23627-87-4
50	3,5-dihydroxy-2-(4-hydroxyphenyl)-7- [(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6- (hydroxymethyl)tetrahydropyran-2-yl]oxy- chromen-4-one	449.1074	191.6	C21H20O11	16290-07-6

Note: This table is sorted by peak area in descending order, and only the top 50 components are presented.

A**B****Fig S1 Total Ion Chromatogram (TIC) of Corn Silk Extract by LC-MS**

(A) TIC of corn silk extract in negative ion mode (Neg. Mode). (B) TIC of corn silk extract in positive ion mode (Pos. Mode)

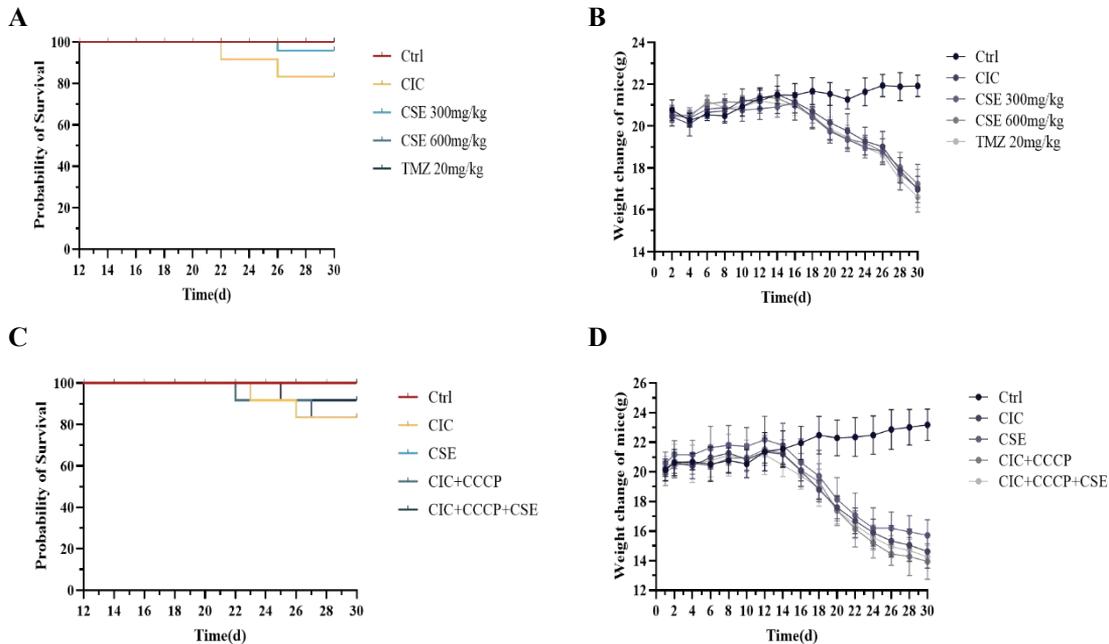


Fig S2 Effects of CSE on probability of survival and body weight in mice
 (A) Survival curves of mice in Study 1. (B) Body weight curves of mice in Study 1 (C) Survival curves of mice in Study 2. (D) Body weight curves of mice in Study 2

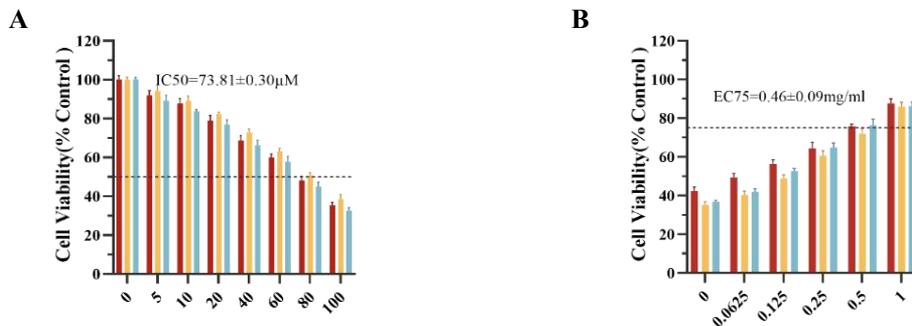


Fig S3 MTT assay of H9c2 cells viability
 (A) MTT assay of different concentrations of cisplatin on H9c2 cells. (B) MTT assay of different concentrations of CSE with cisplatin-induced H9c2 cells

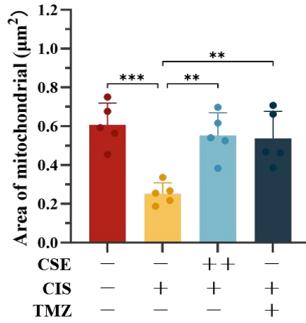
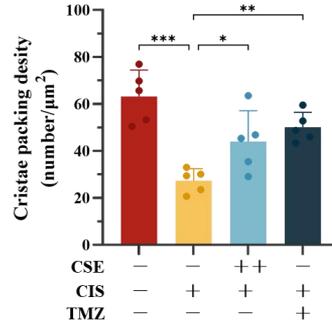
A**B**

Fig S4 Quantitative analysis of mitochondrial morphology was performed on TEM images
(A) Quantification of mitochondrial area (μm^2 , n=5) . (B) Quantification of cristae packing density (number/ μm^2 , n=5)