

Figure S1. Cell viability assay of HepG2 cells with different concentrations of HP β CD (0.2, 2 or 20 mM) treatment for 24, 48 or 72 h. *P<0.05 vs. HP β CD 0.2. #P<0.05 vs. HP β CD 2. HP β CD, 2-hydroxypropyl- β -cyclodextrin.

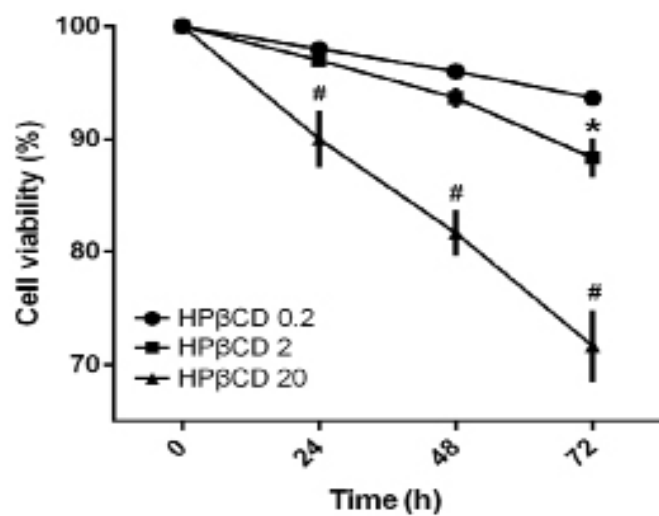


Figure S2. TUNEL assay of apoptotic HepG2 cells with HP β CD treatment (0 or 20 mM) for 48 h. HP β CD, 2-hydroxypropyl- β -cyclodextrin (magnification, x40).

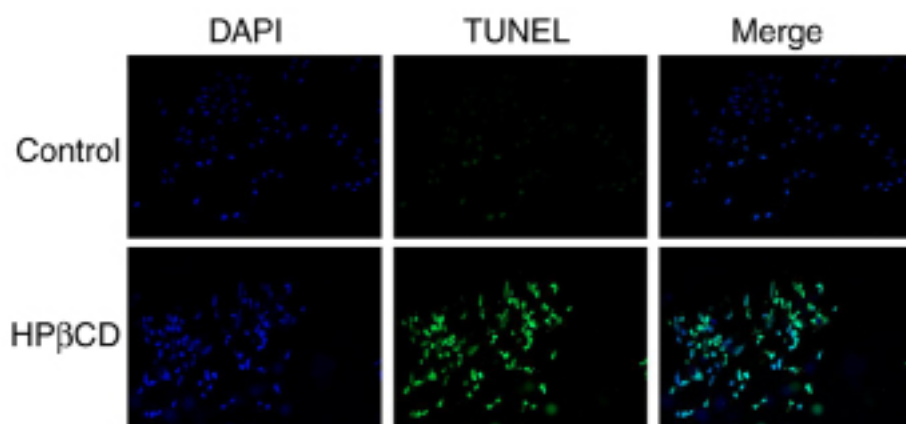


Figure S3. Protein expression levels of p-AMPK, p-ERK1/2 and Beclin-1 after 0 or 20 mM HP β CD treatment for 48 h. GAPDH was utilized as a control. HP β CD, 2-hydroxypropyl- β -cyclodextrin; p-, phosphorylated; AMPK, AMP-activated protein kinase.

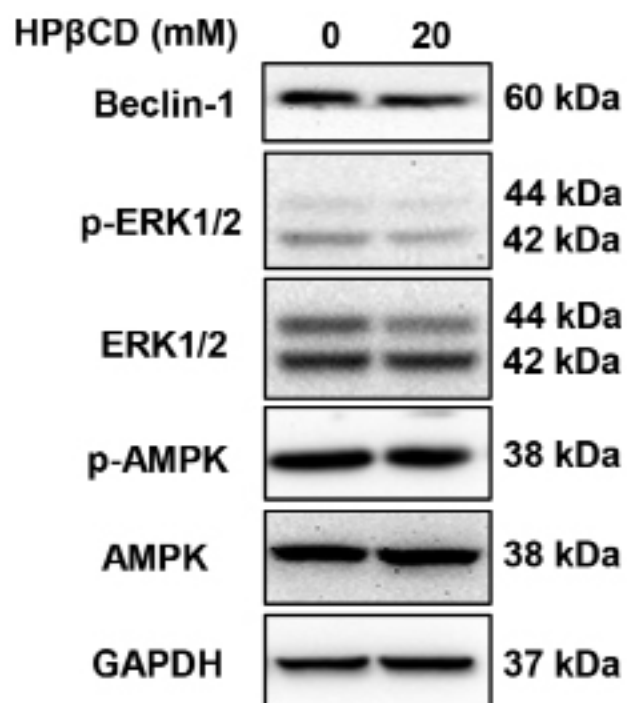


Table SI. Reagent information.

Reagents	Manufacturer	Catalogue no.
Chloroquine	Sigma-Aldrich (Merck KGaA)	C6628
Water-soluble cholesterol	Sigma-Aldrich (Merck KGaA)	C4951
DMSO	Sigma-Aldrich (Merck KGaA)	D2650
2-Hydroxypropyl- β -cyclodextrin	Sigma-Aldrich (Merck KGaA)	H107
SC 79	APExBIO Technology LLC	B5663
Z-IETD-FMK	APExBIO Technology LLC	B3232
3-Methyladenine	APExBIO Technology LLC	A8353

Table SII. Antibody information.

Antibodies	Manufacturer	Catalogue no.
LC3B	ProteinTech Group, Inc.	18725-1-AP
p62	ProteinTech Group, Inc.	66184-1-Ig
AKT	Cell Signaling Technology, Inc.	4685
p-AKT (Ser473)	Cell Signaling Technology, Inc.	4060
mTOR	Cell Signaling Technology, Inc.	2972
p-mTOR (Ser2448)	Cell Signaling Technology, Inc.	5536
GAPDH	Cell Signaling Technology, Inc.	5174
Cleaved-caspase 8	Cell Signaling Technology, Inc.	9496
Pro-caspase 8	Cell Signaling Technology, Inc.	9746
Cleaved-PARP	Cell Signaling Technology, Inc.	5625
Cleaved-caspase 9	Cell Signaling Technology, Inc.	9509
Pro-caspase 9	Cell Signaling Technology, Inc.	9502
ERK1/2	Cell Signaling Technology, Inc.	4695
p-ERK1/2	Cell Signaling Technology, Inc.	4370
AMPK β 1	Cell Signaling Technology, Inc.	12063
p-AMPK β 1(Ser182)	Cell Signaling Technology, Inc.	4186
Beclin-1	Cell Signaling Technology, Inc.	3495
Anti-rabbit IgG, HRP-conjugated secondary antibody	Cell Signaling Technology, Inc.	7074
Anti-mouse IgG, HRP-conjugated secondary antibody	Cell Signaling Technology, Inc.	7076

P, phosphorylated; LC3, microtubule-associated protein 1 light chain 3; PARP, poly ADP-ribose polymerase; HRP, horseradish peroxidase.