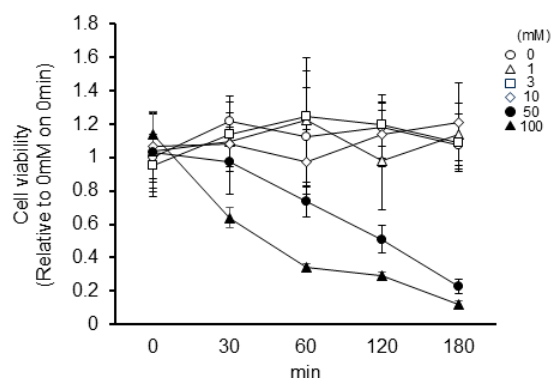
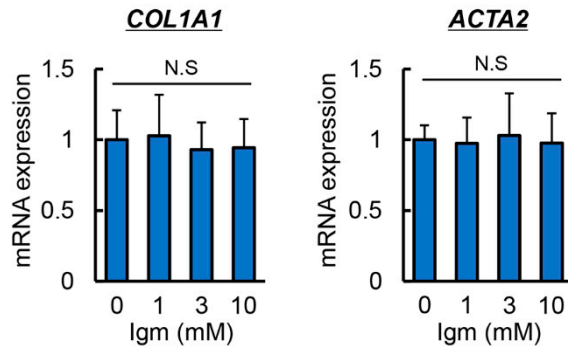


Supplementary materials



Supplementary Figure S1. Cell viability by treatment with imeglimin in palmitic acid-stimulated HepG2 cells. HepG2 cells were treated with different imeglimin concentrations (0, 1, 3, 10, 50 and 100 mM) starting 9 h after the start of palmitic acid exposure. Cell viability was determined using The Premix Water-Soluble Tetrazolium salt (WST)-1 Cell Proliferation Assay system. Quantitative values are indicated as fold changes to the values of imeglimin 0mM-treated group on 0 min. Data are the mean \pm SD ($n = 8$).



Supplementary Figure S2. Imeglimin had no direct effect on activated hepatic stellate cells. Intracellular mRNA expression of *COL1A1* and *ACTA2* in cultured LX-2 cells. LX-2 cells were treated with 0, 1, 3, 10 mM of imeglimin. *GAPDH* was used as an internal control for qRT-PCR. Quantitative values are indicated as fold changes to the values of lgm 0mM-treated group. Data are the mean \pm SD (n = 8). N.S, not significant.

Supplementary Table S1 List of primary antibodies

Antibody	Source (catalog number)	Application (Dilution)
mouse		
4-HNE	JalCA (MHN-100P)	IHC (1:4)
PGC-1 α	Abcam (ab188102)	WB (1:1000)
mtTFA	Abcam (ab47517)	WB (1:1000)
F4/80	Abcam (ab111101)	IHC (1:100)
α -SMA	Abcam (ab5694)	IHC (1:50), WB (1:100)
COL1A	Santa Cruz (sc-59772)	WB (1:1000)
Actin	Cell Signaling (4967)	WB (1:1000)
Human		
p-JNK1 ^(Thr183)	Abcam (ab47337)	WB (1:1000)
JNK1	Abcam (ab199380)	WB (1:1000)
BAX	Cell Signaling (2772)	WB (1:1000)
BCL-2	Abcam (ab182858)	WB (1:2000)
α -SMA	Abcam (ab5694)	WB (1:100)
COL1A	Santa Cruz (sc-59772)	WB (1:1000)
PGC-1 α	Abcam (ab188102)	WB (1:1000)
mtTFA	Abcam (ab47517)	WB (1:1000)
Actin	Cell Signaling (4967)	WB (1:1000)

Supplementary Table S2 List of primers used in q-PCR

gene	Sense (5'-3')	Antisense (5'-3')
Mouse		
<i>Ppara</i>	ATGCCAGTACTGCCGTTTTTC	TTGCCCAGAGATTTGAGGTC
<i>Cpt1a</i>	ATGCTTCTCGCTGTTGGTGA	GTCAGCTGGTAGTGGTGTG
<i>Acox1</i>	ATGGCTCTCGTGTGCTATCC	TGGGACTCTGTCGTTGGTAG
<i>Srebf1c</i>	CGACTACATCCGCTTCTTGACAG	CCTCCATAGACACATCTGTGCC
<i>Fasn</i>	CTGAGATCCCAGCACTTCTTGA	GCCTCCGAAGCCAAATGAG
<i>Scd1</i>	TTCTTGCGATACACTCTGGTGC	CGGGATTGAATGTTCTTGTCTG
<i>Gpx1</i>	CGCTCTTTACCTTCTGCGGAA	AGTTCCAGGCAATGTCGTTGCG
<i>Cybb</i>	TGGCGATCTCAGCAAAAGGTGG	GTAAGTGTCCCACCTCCATCTTG
<i>Sod2</i>	TAACGCGCAGATCATGCAGCTG	AGGCTGAAGAGCGACCTGAGTT
<i>Cat</i>	CGGCACATGAATGGCTATGGATC	AAGCCTTCCTGCCTCTCCAACA
<i>Ncf4</i>	ACTGGAGCTTCTGGTTCTGG	AAGTCTGGGCTGCTTGTGTC
<i>Ddit3</i>	CTGGAAGCCTGGTATGAGGA	TGGTGCTTGGTGAGTGAGA
<i>Hspa5</i>	AGATGAAGGAGGAGGAGGAGGA	AGTGGGTACAGATAGGGGGTG
<i>Ppargc1a</i>	GAATCAAGCCACTACAGACACCG	CATCCCTCTTGAGCCTTTCGTG
<i>Tfam</i>	GAGGCAAAGGATGATTCGGCTC	CGAATCCTATCATCTTTAGCAAGC
<i>Tnfa</i>	CAGGCGGTGCCTATGTCTC	CGATCACCCCGAAGTTCAGTAG
<i>Il6</i>	TACCACTTCACAAGTCGGAGGC	CTGCAAGTGCATCATCGTTGTTC
<i>Il1b</i>	TGGACCTTCAGGATGAGGACA	GTTTCATCTCGGAGCCTGTAGTG
<i>Il10</i>	TGCACTACCAAAGCCACAAG	TCAGTAAGAGCAGGCAGCAT
<i>Ccl2</i>	AGGTCCCTGTCATGCTTCTG	TCTGGACCCATTCTTCTTG
<i>Ccl3</i>	TGGCTCAGCCAGATGCAATC	AGGCTCCCAGGTCTCTTTGG
<i>Nos2</i>	CCTTGTTTCAGCTACGCCTTC	CTTCAGAGTCTGCCCATTCGC
<i>Arg1</i>	GCAGTTGGAAGCATCTCTGG	GAGAAAGGACACAGGTTGCC
<i>Cd163</i>	ATGGGTGGACACAGAATGGT	AGCTCACAGCCACAACAAAG
<i>Timp1</i>	CATGGAAAGCCTCTGTGGATATG	GATGTGCAAATTTCCGTTCTT
<i>Ctgf</i>	TGCCATGAGGAGTGGGTGTG	TGGAGATTTTGGGAGTACGGG
<i>Tgfb1</i>	TTGCTTCAGCTCCACAGAGA	TGGTTGTAGAGGGCAAGGAC
<i>Lgals3</i>	TGTGAAGGTGATGGGATGAG	AAGTGGTCGCTGAAGAGCAG
<i>Gapdh</i>	GACCCCTTCATTGACCTCAAC	GATGACCTTGCCCACAGCCTT
Human		
<i>PPARA</i>	TGGACACAGAGGAAAGAGCC	TGGCATCTTGTTGAAGGATGG
<i>CPT1A</i>	GCTGCTCCTGAGTCATGCTG	GGAGGACTTGGACACGAAGA
<i>CPT2</i>	GCAGATGATGGTTGAGTGCTCC	AGATGCCGCAGAGCAAACAAGTG
<i>ACADC</i>	GAGGAGGAGGAGAAGGAGGC	GTCATCCTCCAGCTCCTCCT
<i>ACAD9</i>	GGCTGTGAGGACGTTGACTT	TGGTCGATGTCAGGTTGTCT
<i>ACAA2</i>	AGGTGGTGGAAAGAGGACTTT	CTTCTGCCTTCATCTGGTGA
<i>SREBFC1</i>	ACTTCTGGAGGCATCGCAAGCA	AGGTTCCAGAGGAGGCTACAAG
<i>FASN</i>	CCTGGAACCGTTATGAAGAT	ATGGCATGGTTGATGAGCTT
<i>PPARG</i>	CGAGAAGGAGAAGCTGTTGG	TCAGCGGGAAGGACTTTATG
<i>DDIT3</i>	AGCGACTTCAGGGTCGTTGCG	AGGCATGGAGCTGCAACGTCC
<i>HSPA5</i>	TAGCGTATGGTGCTGCTGTC	TGACACCTCCCACAGTTTCA
<i>COL1A1</i>	CCAAATCTGTCTCCCCAGAA	TCAAAAACGAAGGGGAGATG
<i>ACTA2</i>	GAGACCCTGTTCCAGCCATC	TACATAGTGGTGCCCCCTGA
<i>PPARGC1A</i>	CAGAGAGTATGAGAAGCGAGAG	AGCATCACAGGTATAACGGTAG
<i>TFAM</i>	ACCAAAAAGACCTCGTTCAGC	CGAGTTTCGTCCTCTTTAGCA
<i>GAPDH</i>	CCAAGGAGTAAGACCCCTGG	TGGTTGAGCACAGGGTACTT