Table S1	. Densytometric anal	vsis of results	presented in Fig	g. 1A.	Cleaved cas	pase 3 was n	ot detected ir	INS1E	cells incubated	without	palmitate.
	2	2		,							

			16:0			
0 h	2 h	4 h	6 h	8 h	16 h	24 h
n.d.	n.d.	1.00 ± 0.01	$4.06 \pm 1.67*$	$6.01 \pm 1.36^*$	$12.92 \pm 3.13^*$	$13.38 \pm 3.05*$
	0 1					

*p<0.05 vs 16:0 at 4 h, n=3; n.d. – not detected

Table S2. Densytometric analysis of results presented in Fig. 2B.

	Veł	nicle	SCD1i		
	BSA	16:0	BSA	16:0	
LC3B II	1.00 ± 0.07	$1.49 \pm 0.26^{*}$	$1.21 \pm 0.01*#$	$0.87 \pm 0.11*\#$	
cleaved caspase 3	n.d.	1.00 ± 0.01	n.d.	$3.49 \pm 0.52 \#$	

*p<0.05 vs BSA vehicle, #p<0.05 vs 16:0 vehicle, n=3; n.d. – not detected

Table S3. Densytometric analysis of results presented in Fig. 2E.

	Con	ntrol	siRNA		
	BSA	16:0	BSA	16:0	
SCD1	1.00 ± 0.12	$1.56 \pm 0.16^{*}$	n.d.	n.d.	
LC3B II	1.00 ± 0.07	$1.59 \pm 0.06*$	$1.17 \pm 0.05*\#$	$1.28 \pm 0.02*\#\&$	
cleaved caspase 3	n.d.	1.00 ± 0.06	$0.87 \pm 0.04 \#$	3.81 ± 0.31 #&	

*p<0.05 vs BSA control, #p<0.05 vs 16:0 control, &p<0.05 vs BSA siRNA, n=3; n.d. – not detected

		В	SA			16	5:0	
	vehicle	SCDi	3-MA	SCDi; 3-MA	vehicle	SCDi	3-MA	SCDi; 3-MA
LC3B II	1.00 ± 0.01	1.60 ± 0.32	1.22 ±0.17*#	$1.83 \pm 0.15^{**}$	$2.07\pm0.09^*$	$1.43 \pm 0.14 * #$	$2.23 \pm 0.07 *^{10}$	3.14 ±0.33*#&^
Cleaved caspase 3	n.d.	n.d.	n.d.	n.d.	1.00 ± 0.01	21.7 ± 1.39#	$2.45\pm0.92\#$	$15.9 \pm 4.08 \#$

Table S4. Densytometric analysis of results presented in Fig. 3A. Cleaved caspase 3 was not detected in INS1E cells incubated without palmitate.

*p<0.05 vs BSA vehicle, #p<0.05 vs 16:0 vehicle, &p<0.05 vs BSA SCDi, ^p<0.05 vs 16:0 SCDi, n=3; n.d. – not detected

Table S5. Densytometric analysis of results presented in Fig. 3B. Cleaved caspase 3 was not detected in INS1E cells incubated without palmitate.

	BSA				16:0			
	vehicle	SCDi	MN	SCDi; MN	vehicle	SCDi	MN	SCDi; MN
LC3B II	1.00 ± 0.01	1.28 ± 0.33	1.63 ±0.09*&	1.52 ± 0.16 *&	$1.59\pm0.05*$	$0.75 \pm 0.03 * #$	1.19 ± 0.22	0.67 ±0.07*#
Cleaved caspase 3	n.d.	n.d.	n.d.	n.d.	1.00 ± 0.01	$3.72\pm0.76 \#$	$2.31\pm0.67\#$	$4.22 \pm 1.28 \#$

*p<0.05 vs BSA vehicle, #p<0.05 vs 16:0 vehicle, &p<0.05 vs 16:0 SCDi, n=3; n.d. – not detected

Table S6. Densytometric analysis of results presented in Fig. 3C. Cleaved caspase 3 was not detected in INS1E cells incubated without palmitate.

	BSA				16:0			
	vehicle	SCDi	E/P	SCDi; E/P	vehicle	SCDi	E/P	SCDi; E/P
LC3B II	1.00 ± 0.01	$1.46 \pm 0.13 * #$	2.26 ±0.01*&^	$1.77 \pm 0.17*#$	2.17 ± 0.07 *&	$1.63 \pm 0.09 * #$	$2.05 \pm 0.09 $ *&^	1.82 ±0.14*#&
Cleaved caspase 3	n.d.	n.d.	n.d.	n.d.	1.00 ± 0.01	3.97 ± 1.10#	$1.74\pm0.01\#$	5.11 ± 1.56#

*p<0.05 vs BSA vehicle, #p<0.05 vs 16:0 vehicle, &p<0.05 vs BSA SCDi, ^p<0.05 vs 16:0 SCDi, n=3; n.d. – not detected

Table S7.	Densytometric	analysis o	f results	presented in	Fig. 6A.

	Veh	icle	SCD1i		
	BSA 16:0		BSA	16:0	
СНОР	1.00 ± 0.13	$1.45 \pm 0.29^{*}$	$1.67 \pm 0.40^{*}$	$1.28 \pm 0.24*#$	
BiP	1.00 ± 0.11	$1.50 \pm 0.46*$	$1.32 \pm 0.29^{*}$	$0.77 \pm 0.09*#$	
p-eIF2α/eIF2α	$1.00 \hspace{0.1in} \pm \hspace{0.1in} 0.08$	$1.35 \pm 0.20*$	$1.36 \pm 0.21*$	$0.77 \pm 0.09*\#$	

*p<0.05 vs BSA control, #p<0.05 vs 16:0 control

Table S8. Densytometric analysis of results presented in Fig. 6B.

	Veh	icle	SCD1i		
	BSA	16:0	BSA	16:0	
caspase 9	1.00 ± 0.01	1.04 ± 0.14	1.12 ± 0.20	1.04 ± 0.27	
cleaved caspase 9	1.00 ± 0.05	$4.47 \pm 1.35^*$	$1.62 \pm 0.18*#$	$29.70 \pm 3.15*#$	

*p<0.05 vs BSA control, #p<0.05 vs 16:0 control