

Appendix

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Appendix Table S1: The results of the statistical analyses of the figures

A

Figure 2A	
Two-way ANOVA followed by Tukey's multiple comparisons test	
(-)	
2 hours	ns
4 hours	ns
8 hours	****

B

Figure 2B	
Two-way ANOVA followed by Tukey's multiple comparisons test	
37°C	cold
ctrl#1	ctrl#2
ctrl#1	ASK1#1
ctrl#1	ASK1#3
ctrl#2	ASK1#1
ctrl#2	ASK1#3
ASK1#1	ASK1#3

C

Figure 2D	
Two-way ANOVA followed by Tukey's multiple comparisons test	
37°C	cold
DMSO	SB
202190	ns
DMSO	SB
203580	ns
DMSO	SB
202474	ns
SB	SB
202190	203580
SB	SB
202190	202474
SB	SB
203580	202474
ASK1#1	ASK1#3

D

Figure 2E	
Two-way ANOVA followed by Tukey's multiple comparisons test	
37°C	cold
ctrl#1	ctrl#2
ctrl#1	ctrl#3
ctrl#1	ASK1#1
ctrl#1	ASK1#2
ctrl#1	ASK1#3
ctrl#2	ctrl#3
ctrl#2	ASK1#1
ctrl#2	ASK1#2
ctrl#2	ASK1#3
ctrl#3	ASK1#1
ctrl#3	ASK1#2
ctrl#3	ASK1#3
ASK1#1	ASK1#2
ASK1#1	ASK1#3
ASK1#2	ASK1#3

E

Figure 2G	
Two-way ANOVA followed by Tukey's multiple comparisons test	
37°C	cold
DMSO	SB
202190	ns
DMSO	SB
202474	ns
SB	SB
202190	202474

F

Figure 2H	
Two-way ANOVA followed by Tukey's multiple comparisons test	
37°C	cold
DMSO	SB
202190	ns
DMSO	SB
202474	ns
SB	SB
202190	202474

G

Figure 2I	
Two-way ANOVA followed by Tukey's multiple comparisons test	
37°C	cold
DMSO	SB
202190	ns
DMSO	SB
202474	ns
SB	SB
202190	202474

H

Figure 4A	
Two-way ANOVA followed by Tukey's multiple comparisons test	
37°C	cold
DMSO	Fer-1
DMSO	U0124
DMSO	U0126
Fer-1	U0124
Fer-1	U0126
U0124	U0126

I

Figure 6A						
Two-way ANOVA followed by Tukey's multiple comparisons test						
compound	DMSO	DMSO	DMSO	Fer-1	Fer-1	U0124
	Fer-1	U0124	U0126	U0124	U0126	U0126
Elastin [μM]	0.625	ns	ns	ns	ns	ns
	1.25	ns	ns	ns	ns	ns
	2.5	ns	ns	ns	ns	ns
	5	****	****	****	ns	****
	10	****	ns	****	ns	****

J

Figure 6B	
Two-way ANOVA followed by Bonferroni's multiple comparisons test	
compound	MilliQ
	Dfx
Elastin [μM]	0.625
	1.25
	2.5
	5
	10

K

Figure 6C			
Two-way ANOVA followed by Tukey's multiple comparisons test			
compound	DMSO	DMSO	
	SB202190	SB202474	
Elastin [μM]	0.625	ns	ns
	1.25	ns	ns
	2.5	ns	ns
	5	****	ns
	10	****	ns

M

Figure 6D													
Two-way ANOVA followed by Tukey's multiple comparisons test													
siRNA	ct#1	ct#1	ct#1	ct#1	ct#1	ct#2	ct#2	ct#2	ct#2	ct#3	ct#3	ct#3	ASK1
	ct#2	ct#3	ASK1	ASK1	ASK1	ct#3	ASK1	ASK1	ASK1	ASK1	ASK1	ASK1	#1
			#2	#2	#3		#1	#2	#3	#1	#2	#3	#2
Elastin [nM]	312.5	ns											
	625	ns											
	1250	ns	ns	ns	**	****	ns	ns	****	****	**	****	****
	2500	ns	*	ns	ns								
	5000	ns											
	10000	ns											
RSL3 [nM]	15.625	ns											
	31.25	ns	ns	ns	ns	ns	*	***	ns	ns	**	ns	ns
	62.5	ns	**	ns	*	*	ns	****	****	****	****	ns	ns
	125	ns	****	ns	*	***	*	****	****	****	****	ns	ns
	250	ns	**	ns	*	****	ns	****	****	****	****	ns	ns
	500	ns	*	ns	**	ns	***	*	***	****	****	ns	ns
	1000	ns	ns	**	ns	ns	***	ns	ns	****	**	ns	ns
	2000	ns	ns	*	ns	ns	**	ns	ns	****	*	ns	ns
	4000	ns	****	ns	ns	ns							

Appendix Table S2: The results of the statistical analyses of the expanded view figures

A

B

Figure EV2D

Two-way ANOVA followed by Tukey's multiple comparisons test			
		37°C	cold
DMSO	Fer-1	ns	****
DMSO	U0124	ns	***
DMSO	U0126	ns	****
Fer-1	U0124	ns	****
Fer-1	U0126	ns	ns
U0124	U0126	ns	****

Figure EV3A
Two-way ANOVA followed by Tukey's multiple comparisons test

compound	5 µM								20 µM							
	DMSO				SB20				DMSO				SB20			
	5 µM	5 µM	20 µM	20 µM	5 µM	5 µM	20 µM	20 µM	5 µM	5 µM	20 µM	20 µM	5 µM	5 µM	20 µM	20 µM
SB20	SB20	SB20	SB20	Fer-1	SB20	SB20	Fer-1	SB20	SB20	Fer-1	SB20	Fer-1	SB20	SB20	Fer-1	Fer-1
2190	2474	2190	2474		2474	2190		2474	2190		2474		2474	2190	2190	2474
39.0625	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
78.125	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
156.25	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
312.5	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
625	ns	ns	**	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
1250	ns	ns	ns	*	****	*	ns	**	****	***	ns	****	****	****	***	****
2500	ns	ns	****	ns	****	ns	****	ns	****	****	ns	****	****	****	****	****
5000	ns	ns	**	ns	****	ns	**	ns	****	**	ns	****	**	****	**	****
10000	ns	ns	**	ns	****	ns	**	ns	****	**	ns	****	**	**	**	**

C

Figure EV3B

Two-way ANOVA followed by Tukey's multiple comparisons test

compound	DMSO	DMSO	DMSO	DMSO	DMSO	5 μM SB20	5 μM SB20	5 μM SB20	5 μM SB20	5 μM SB20	5 μM SB20	5 μM SB20	20 μM SB20	20 μM SB20	20 μM SB20	20 μM SB20	
	5 μM SB20	5 μM SB20	20 μM SB20	20 μM SB20	1 μM Fer-1	5 μM SB20	20 μM SB20	20 μM SB20	1 μM Fer-1	20 μM SB20	20 μM SB20	1 μM Fer-1	20 μM SB20	1 μM Fer-1	20 μM SB20	1 μM Fer-1	
15.625	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
31.25	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
62.5	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
125	**	ns	*	**	***	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
250	***	*	****	****	****	ns	ns	ns	*	**	ns	***	ns	ns	ns	ns	ns
500	****	*	****	****	****	ns	****	ns	****	****	**	****	ns	ns	ns	ns	**
1000	ns	ns	****	****	****	ns	****	**	****	****	**	****	**	****	**	ns	****
2000	ns	ns	****	****	****	ns	****	*	****	****	*	****	*	****	*	****	****
4000	ns	ns	****	****	****	ns	****	ns	****	****	*	****	*	****	*	****	****

Figure EV3C

Two-way ANOVA followed by Tukey's multiple comparisons test							
compound	DMSO	DMSO	DMSO	Fer-1	Fer-1	Fer-1	U0124
	Fer-1	U0124	U0126	U0124	U0126	U0126	U0126
Erastin [nM]	39.0625	ns	ns	ns	ns	ns	ns
	78.125	ns	ns	ns	ns	ns	ns
	156.25	ns	ns	ns	ns	ns	ns
	312.5	ns	ns	ns	ns	ns	ns
	625	****	ns	****	*	ns	ns
	1250	****	ns	****	****	ns	****
	2500	****	ns	****	****	ns	****
	5000	****	ns	****	****	ns	****
	10000	****	ns	****	****	ns	****
	20000	****	ns	****	****	ns	****

E

Figure EV3D

Two-way ANOVA followed by Bonferroni's multiple comparisons test		
compound	MilliQ	Dfx
39.0625	ns	
78.125	ns	
156.25	ns	
312.5	ns	
625	****	
1250	****	
2500	****	
5000	****	
10000	****	

F

Figure EV3E

Two-way ANOVA followed by Tukey's multiple comparisons test							
compound	DMSO	DMSO	DMSO	SB 202190	SB 202190	SB 202474	
	SB 202190	SB 202474	Fer-1	SB 202474	Fer-1	Fer-1	
Erastin [nM]	39.0625	ns	ns	*	ns	ns	ns
	78.125	ns	ns	ns	ns	ns	ns
	156.25	ns	ns	ns	ns	ns	ns
	312.5	ns	ns	ns	ns	ns	***
	625	****	ns	****	****	****	****
	1250	****	ns	****	****	****	****
	2500	***	ns	****	***	****	****
	5000	*	ns	****	*	****	****
	10000	*	ns	****	*	****	****

Figure EV3F

Two-way ANOVA followed by Tukey's multiple comparisons test							
compound	DMSO	DMSO	DMSO	SB 202190	SB 202474	SB 202190	SB 202474
	SB 202190	SB 202474	Fer-1	SB 202474	Fer-1	Fer-1	Fer-1
RSL3 [nM]	3.90625	ns	ns	ns	ns	ns	ns
	7.8125	ns	ns	ns	ns	ns	ns
	15.625	ns	ns	ns	ns	ns	ns
	31.25	ns	ns	ns	ns	ns	ns
	62.5	ns	ns	ns	ns	ns	ns
	125	****	****	****	ns	ns	**
	250	****	**	****	***	ns	****
	500	****	ns	****	**	***	****
	1000	****	ns	****	*	****	****

H

Figure EV4B

Figure EV4E

1

Figure E14E

Figure EV5A

	ctrl siRNA	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2
ctrl siRNA											
GPX4 siRNA				#1	#2	#1	#2	#1	#2	#1	#2
ASK1 siRNA				#1	#2	#1	#2	#1	#2	#1	#2
#1											
ctrl siRNA	ns	***	*	***	**	***	**	ns	ns		
GPX4 siRNA		**	*	**	**	***	**	ns	ns		
ASK1 siRNA				ns	ns	ns	ns	ns	ns	**	**
#2											
ctrl siRNA											
GPX4 siRNA											
ASK1 siRNA											

One-way ANOVA followed by Tukey's multiple comparisons test