

Supplementary tables

Table S1:

Chemicals used in the study

Item	Provider	Identifier
Antimycin	Sigma Aldrich	Cat#: A8674
Bortezomib	Sigma-Aldrich	Cat#: 504314
Entinostat (MS-275)	Selleck Chemicals	Cat#: S1053
FCCP	Abcam	Cat#: ab120081
N-Acetyl-L-cysteine (NAC)	Sigma-Aldrich	Cat#: A9165
Oligomycin	Sigma Aldrich	Cat#: 495455
Romidepsin (FK228)	Selleck Chemicals	Cat#: S3020
Rotenone	Sigma Aldrich	Cat#: 557368
40% Acrylamide/bisacrylamide 37.5:1	Carl Roth	Cat#: T802.1
Acetone	Carl Roth	Cat#: CP40.1
Agarose standard	Carl Roth	Cat#: 3810.3
Ammonium persulfate (APS)	Carl Roth	Cat#: 9592.2
Annexin-V FITC	Miltenyi Biotec	Cat#: 130-093-060
Bovine serum albumin (BSA) Fraction V	Carl Roth	Cat#: 1ET9.3
CaCl ₂	Merck	Cat#: 6781
Coomassie Brilliant Blue G-250	Merck	Cat#: 115444
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	Cat#: D8418
Dithiothreitol (DTT)	Carl Roth	Cat#: 6908
Dulbecco's Modified Eagle's Medium	Sigma-Aldrich	Cat#: D5796
EGTA	Sigma-Aldrich	Cat#: 3054.1
Entinostat (MS-275)	Selleck Chemicals	Cat#: S1053
Ethanol	Carl Roth	Cat#: 9065.4
Ethylenediaminetetraacetic acid (EDTA)	Applichem	Cat#: 131669.1211
Fetal bovine serum (FBS)	Sigma-Aldrich	Cat#: S0615
Formamidopyrimidine DNA glycosylase (FPG)	New England Biolabs	Cat#: M 0240
G-418, Geneticin	Sigma-Aldrich	Cat#: G5013
Gibco fetal calf serum (FCS)	Thermo Fisher Scientific	Cat#: 16000044
Gibco OptiMEM	Thermo Fisher Scientific	Cat#: 31985070
Gibco Penicillin/streptomycin	Thermo Fisher Scientific	Cat#: 15140122
Glycerin	Sigma-Aldrich	Cat#: G5516
Glycine	Carl Roth	Cat#: 0079.4
Hydrochloric acid (HCl)	Carl Roth	Cat#: 4625
Hydroxyethyl piperazineethane sulfonic acid (HEPES)	Sigma-Aldrich	Cat#: H3375-100G
IPTG	Carl Roth	Cat#:2316.3
Isopropanol (2-Propanol)	Fisher Scientific	Cat#: P/7500/15
Lactacystin	Sigma-Aldrich	Cat#: L6785
Lipofectamine® 3000	Invitrogen	Cat#: L3000-008
Marbostat-100	Sellmer et al. ¹	N/A
MERCK60 (BRD6929)	Sigma-Aldrich	Cat#: SML2521
Methanol	Carl Roth	Cat#: 4627.2
NaCl	Sigma-Aldrich	Cat#: 3957
New Blot™ Nitro Stripping Buffer, 5x	LI-COR	Cat#: 928-40030

Non-fat dry milk powder	Carl Roth	Cat#: T145
NP-40	Fluka Analytical	Cat#: 74385
N-lauroylsarcosine sodium	Sigma-Aldrich	Cat#: L5125
PageRuler™ prestained protein ladder	Thermo Fisher Scientific	Cat#: 26616
PageRuler™ prestained protein ladder	Thermo Fisher Scientific	Cat#: 26619
Phosphatase inhibitor cocktail 2	Sigma-Aldrich	Cat#: P5726
Phosphate-buffered saline (PBS) powder	Bio & Sell	Cat#: BS.L182-50
Phosphoric acid (85% (w/v) in H ₂ O)	Carl Roth	Cat#: 90791
Potassium Chloride	Carl Roth	Cat#: 6781
Propidium iodide (PI)	Sigma-Aldrich	Cat#: P4864
protease inhibitor (cOmplete tablets, Mini, EDTA-free, EASYpack)	Roche	Cat#: 11697498001
Puromycin	InvivoGen	Cat#: ant-pr-1
RNAse A	Sigma-Aldrich	10109142001
RNASE AWAY	Molecular Bioproduct	Cat#: 7003
RPMI-1640	Sigma-Aldrich	Cat#: R8758
Serva Blue G	Serva Electrophoresis	Cat#: 35050
Sodium dodecyl sulfate (SDS)	Carl Roth	Cat#: 8029
Sodium hydroxide	Carl Roth	Cat#: 6771
Sodium pyruvate	Fisher Scientific	Cat#: 12539059
tert-Butyl hydroperoxide (TBHP)	Sigma-Aldrich	Cat#: 458139
Tetramethylethylenediamine (TEMED)	Carl Roth	Cat#: 2367
TO-PRO-3	Life Technologies	Cat#: T3605
Tris base	Carl Roth	Cat#: 5429
Triton X-100	Sigma-Aldrich	Cat#: X100
Trypsin-EDTA	Thermo Fisher Scientific	Cat#: 15090046
Tween-20	Carl Roth	Cat#: 9127
Vectashield®	Vector Laboratories	Cat#: H-1000
Western Lightening Plus-ECL	PerkinElmer	Cat#: NEL104001EA
Z-VAD-FMK	Selleck Chemicals	Cat#: S7023
Critical commercial assays		
CM-H ₂ DCFDA	Thermo Fisher Scientific	Cat#: C6827
NucleoSpin RNA, Mini kit for RNA purification	Machery-Nagel	Cat#: 74095550
MitoSOX Red	Life Technologies	Cat#: M36008
Neon Transfection System 100 µL Kit	Thermo Fisher Scientific	Cat#: MPK10096
Seahorse XF Cell Mito Stress Test Kit	Agilent Technologies	Cat#: 103774-100
Human Methylcellulose Base Media	R&D Systems	Cat#: 390394

Table S2:

Primers used for site-directed mutagenesis

Gene	Primer	Sequence
<i>Mouse Jak2</i>	F	CGGATTAACCAAAGGCTTGCCGCAGGAC (28)
<i>Mouse Jak2</i>	R	GTCCTGCGGCAAGCCTTTGGTTAATCCG (28)

Table S3:

Primers used for qRT-PCR

Gene	Primer	Sequence
<i>ACTB</i>	F	TGGCATCCACGAAACTACC (19)
<i>ACTB</i>	R	GTGTTGGCGTACAGGTCTT (19)
<i>GAPDH</i>	F	CATGAGAAGTATGACAACAG (20)
<i>GAPDH</i>	R	ATGAGTCCTTCCACGATA (18)
<i>JAK2</i>	F	TGGGGTTTTCTGGTGCCTTT (20)
<i>JAK2</i>	R	TAGAGGGTCATACCGGCACA (20)
<i>SIAH1</i>	F	TCACCAGCAGTTCTTCGCAA (20)
<i>SIAH1</i>	R	TCGCTTCCCAAGTCAATCGT (20)
<i>SIAH2</i>	F	CGCCCACAAGAGCATTACCA (20)
<i>SIAH2</i>	R	CACCAGCATGAAGTGATGGC (20)
<i>UBE2L6</i>	F	AGACCGAATATCAGGGAGCC (20)
<i>UBE2L6</i>	R	GGGTGAACTCTTCGGCATTC (20)

1. Sellmer, A. *et al.* Marbostat-100 Defines a New Class of Potent and Selective Antiinflammatory and Antirheumatic Histone Deacetylase 6 Inhibitors. *Journal of medicinal chemistry* **61**, 3454-3477 (2018).