

Table S1. Major autophagy- and ferroptosis-associated compounds, Related to Figures 1 and 3.

Compound	Mode of Action	Target Point	Category
3-Methyladenine	PI3 kinase inhibitor	Autophagosome	Autophagy inhibitor
Wortmannin	PI3 kinase inhibitor	Autophagosome	Autophagy inhibitor
LY294002	PI3 kinase inhibitor	Autophagosome	Autophagy inhibitor
SBI-0206965	ULK1 inhibitor	Autophagosome	Autophagy inhibitor
MRT 67307	ULK1 inhibitor	Autophagosome	Autophagy inhibitor
MRT 68921	ULK1 inhibitor	Autophagosome	Autophagy inhibitor
Spautin-1	USP10 and USP13 inhibitor	Autophagosome	Autophagy inhibitor
NSC185058	ATG4 inhibitor	Autophagosome	Autophagy inhibitor
Tioconazole	ATG4 inhibitor	Autophagosome	Autophagy inhibitor
N-ethylmaleimide	ATG4 inhibitor	Autophagosome	Autophagy inhibitor
WZ4003	AMPK inhibitor	Autophagosome	Autophagy inhibitor
Compound C	AMPK inhibitor	Autophagosome	Autophagy inhibitor
HTH-01-015	AMPK inhibitor	Autophagosome	Autophagy inhibitor
Nocodazole	Microtubule inhibitor	Autolysosome	Autophagy inhibitor
Vinblastine	Microtubule inhibitor	Autolysosome	Autophagy inhibitor
Bafilomycin A ₁	H ⁺ -ATPase inhibitor	Autolysosome	Autophagy inhibitor
Concanamycin A	H ⁺ -ATPase inhibitor	Autolysosome	Autophagy inhibitor
E64d	Cathepsin inhibitor	Autolysosome	Autophagy inhibitor
Pepstatin A	Protease inhibitor	Autolysosome	Autophagy inhibitor
Chloroquine	Lysosomotropic agent	Autolysosome	Autophagy inhibitor
Hydroxychloroquine	Lysosomotropic agent	Autolysosome	Autophagy inhibitor
Simvastatin	AMPK activator	Autophagosome	Autophagy activator
A769662	AMPK activator	Autophagosome	Autophagy activator
Metformin	AMPK activator	Autophagosome	Autophagy activator
Resveratrol	AMPK activator	Autophagosome	Autophagy activator
AICAR	AMPK activator	Autophagosome	Autophagy activator
PT1	AMPK activator	Autophagosome	Autophagy activator
Rapamycin	MTOR inhibitor	Autophagosome	Autophagy activator
Torin1 and Torin2	MTOR inhibitor	Autophagosome	Autophagy activator
Everolimus	MTOR inhibitor	Autophagosome	Autophagy activator
Temsirolimus	MTOR inhibitor	Autophagosome	Autophagy activator
A23187	ER stress inducer	Autophagosome	Autophagy activator
Brefeldin A	ER stress inducer	Autophagosome	Autophagy activator
Thapsigargin	ER stress inducer	Autophagosome	Autophagy activator
Tunicamycin	ER stress inducer	Autophagosome	Autophagy activator

Vitamin E	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
Ferrostatin-1	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
UAMC-3203	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
Liproxstatin-1	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
CoQ10	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
Idebenone	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
Ebselen	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
BHT	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
Trolox	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
XJB-5-131	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
N-acetyl-cysteine	Antioxidant	Lipid peroxidation	Ferroptosis inhibitor
Baicalein	Lipoxygenase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
PD-146176	Lipoxygenase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
AA-861	Lipoxygenase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Zileuton	Lipoxygenase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Nordihydroguaiaretic acid	Lipoxygenase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Rosiglitazone	ACSL4 inhibitor	Lipid peroxidation	Ferroptosis inhibitor
TOFA	Acetyl-CoA carboxylase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Beta-mercaptoethanol	Reducing agent	Lipid peroxidation	Ferroptosis inhibitor
SRS16-86	Increase GSH production	Lipid peroxidation	Ferroptosis inhibitor
SRS11-92	Increase GSH production	Lipid peroxidation	Ferroptosis inhibitor
Dopamine	GPX4 degradation inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Selenium	GPX4 activator	Lipid peroxidation	Ferroptosis inhibitor
GSH	GPX4 activator	Lipid peroxidation	Ferroptosis inhibitor
Vildagliptin	DPP4 inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Alogliptin	DPP4 inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Linagliptin	DPP4 inhibitor	Lipid peroxidation	Ferroptosis inhibitor
YM-53601	Squalene synthase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Zaragozic acid A	Squalene synthase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
K252a	Phosphorylase kinase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
7-Oxo staurosporine	Phosphorylase kinase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Thiazolidinediones	Acyl-CoA synthetase inhibitor	Lipid peroxidation	Ferroptosis inhibitor
Deferoxamine	Iron chelator	Iron accumulation	Ferroptosis inhibitor

Cyclipirox	Iron chelator	Iron accumulation	Ferroptosis inhibitor
Deferasirox	Iron chelator	Iron accumulation	Ferroptosis inhibitor
Erastin	System x_c^- inhibitor	GSH production	Ferroptosis activator
Sulfasalazine	System x_c^- inhibitor	GSH production	Ferroptosis activator
Sorafenib	System x_c^- inhibitor	GSH production	Ferroptosis activator
Glutamate	System x_c^- inhibitor	GSH production	Ferroptosis activator
Buthionine sulfoximine	Glutamate-cysteine ligase inhibitor	GSH production	Ferroptosis activator
Artesunate	Decreases intracellular GSH levels	GSH production	Ferroptosis activator
Artemisinin	Decreases intracellular GSH levels	GSH production	Ferroptosis activator
Acetaminophen	Decreases intracellular GSH levels	GSH production	Ferroptosis activator
N-Acetyl-4-benzoquinone imine	Decreases intracellular GSH levels	GSH production	Ferroptosis activator
BAY 87-2243	Mitochondrial complex I inhibition	Mitochondrial ROS production	Ferroptosis activator
RSL3	GPX4 inhibitor	Lipid repair	Ferroptosis activator
FIN56	GPX4 inhibitor	Lipid repair	Ferroptosis activator
Withaferin A	GPX4 inhibitor	Lipid repair	Ferroptosis activator
FINO2	GPX4 inhibitor	Lipid repair	Ferroptosis activator
ML162	GPX4 inhibitor	Lipid repair	Ferroptosis activator
ML210	GPX4 inhibitor	Lipid repair	Ferroptosis activator
iFSP1	AIFM2/FSP1 inhibitor	Lipid repair	Ferroptosis activator
Fluvastatin	HMGCR/HMG-CoA reductase inhibitor	Lipid synthesis	Ferroptosis activator
Lovastatin	HMGCR/HMG-CoA reductase inhibitor	Lipid synthesis	Ferroptosis activator
Simvastatin	HMGCR/HMG-CoA reductase inhibitor	Lipid synthesis	Ferroptosis activator
Hemoglobin	N/A	Iron accumulation	Ferroptosis activator
FeCl ₂	N/A	Iron accumulation	Ferroptosis activator
Hemin	N/A	Iron accumulation	Ferroptosis activator
(NH ₄) ₂ Fe(SO ₄) ₂	N/A	Iron accumulation	Ferroptosis activator
Trigonelline	NFE2L2 inhibitor	Antioxidant gene expression	Ferroptosis activator
Brusatol	NFE2L2 inhibitor	Antioxidant gene expression	Ferroptosis activator