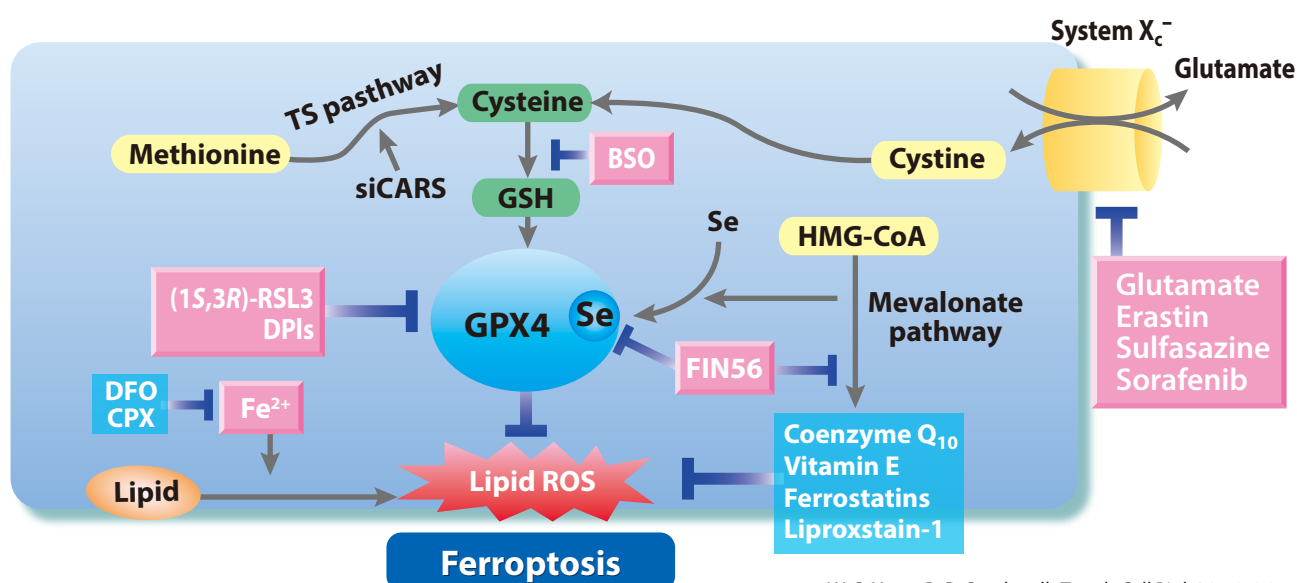


Ferroptosis Research Reagents

for iron-dependent programmed cell death

Ferroptosis is a recently recognized form of regulated cell death characterized by the accumulation of lipid peroxidation products and lethal reactive oxygen species (ROS) derived from iron metabolism. Activation of mitochondrial voltage-dependent anion channels and mitogen-activated protein kinases, upregulation of endoplasmic reticulum stress, and inhibition of cystine/glutamate antiporter is involved in the induction of ferroptosis. Morphologically, it is characterized by the presence of smaller than normal mitochondria with condensed mitochondrial membrane densities, reduction or vanishing of mitochondria crista, and outer mitochondrial membrane rupture.



W. S. Yang, B. R. Stockwell, *Trends Cell Biol.* **2016**, *26*, 165.

Ferroptosis Inhibitors

Trolox Inhibitor of ferroptosis; antioxidant	1g/ 5g [H0726]	Ebselen Inhibitor of ferroptosis; Inhibits lipoygenase, cyclooxygenase nitric oxide synthase, protein kinase C and H ⁺ /K ⁺ -ATPase activity. Inhibits the hepatic carcinogenic effects of aflatoxin B ₁ .	25mg/ 100mg [E0946]
Baicalein Inhibitor of ferroptosis; 5- and 1-lipoxygenase inhibitor	1g/ 5g [T2721]	Idebenone Inhibitor of ferroptosis; blocks glutamate neurotoxicity in vitro and in vivo	1g/ 5g [I0848]
Coenzyme Q₁₀ (= CoQ₁₀) Inhibitor of ferroptosis; antioxidant	100mg/ 1g [C1971]		

Ferroptosis Activators

L-Glutamic Acid Induces ferroptosis; endogenous, non-selective agonist	25g/ 500g [G0059]	Sulfasalazine Induces ferroptosis; cystine-glutamate antiporter inhibitor and inhibitor of NF-κB activation	25g [S0580]
Simvastatin Induces ferroptosis; HMG-CoA reductase inhibitor	100mg/ 1g [S0509]		

For further information please refer to our website at www.TCIchemicals.com.

cell signaling



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