

Ferrostatin-1 (Fer-1)

Catalog No: RM02804

Product Description

Catalog:

RM02804

CAS Number:

347174-05-4

Formula:

C₁₅H₂₂N₂O₂

Molecular weight:

262.35

Target:

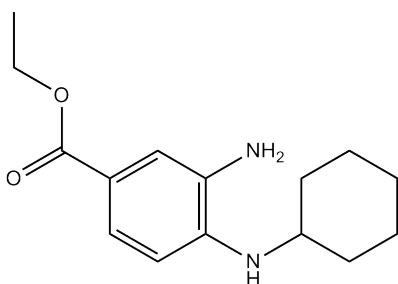
Lipid peroxidation

Signaling pathway:

Ferroptosis

Storage:

Store at -20°C



Solubility information:

In vitro	Prepare stock solutions	≥9.8 mg/mL in DMSO, 99.6 mg/mL in EtOH with ultrasonic, insoluble in H2O				
		Solvent Volume	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.8117 mL	19.0585 mL	38.1170 mL
		5 mM		0.7623 mL	3.8117 mL	7.6234 mL
		10 mM		0.3812 mL	1.9059 mL	3.8117 mL

Protocol

Cell experiment

Cell lines	Healthy medium spiny neurons, oligodendrocytes, kidney proximal tubules cell
Preparation method	The solubility of this compound in DMSO is >9.8mg/mL. General tips for obtaining a higher concentration: warm the tube at 37 °C for 10 minutes, and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting condition	10 nM, 100 nM, 1 μM
Applications	Fer-1 (10 nM, 100 nM, and 1 μM) significantly increased the number of healthy MSNs. Fer-1 (1 μM) statistically increased the number of healthy MSN. Fer-1 (100 nM) fully protected oligodendrocytes from cystine deprivation. Fer-1 (0.1-2 μM) prevented lethality induced by hydroxyquinoline and ferrous ammonium sulfate (HQ + Fe; 10 μM each).
Notice	Please test the solubility of all compounds indoor. The actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal

Citation

[1]. Skouta R, Dixon S J, Wang J, et al. Ferrostatins inhibit oxidative lipid damage and cell death in diverse disease models[J]. Journal of the American Chemical Society, 2014, 136(12): 4551-4556.

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