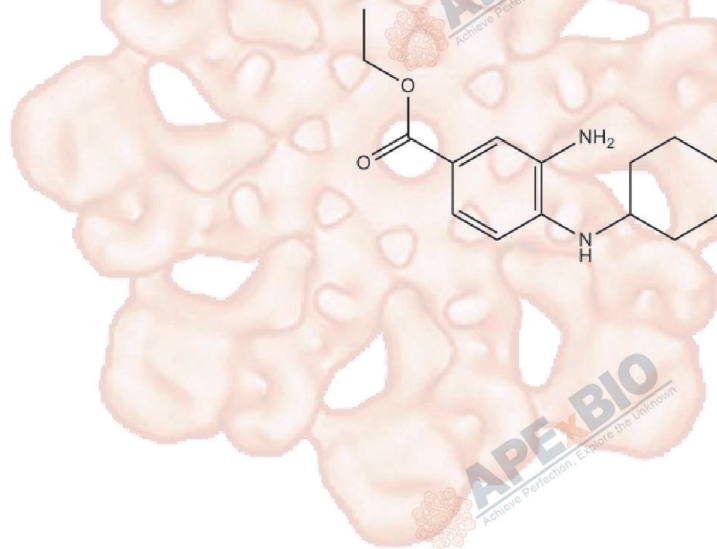


Product Data Sheet

Ferrostatin-1 (Fer-1)

Cat. No.:	A4371
CAS No.:	347174-05-4
Formula:	C ₁₅ H ₂₂ N ₂ O ₂
M.Wt:	262.35
Synonyms:	
Target:	Metabolism
Pathway:	Ferroptosis
Storage:	Store at -20°C



Solvent & Solubility

≥149 mg/mL in DMSO; ≥99.6 mg/mL in EtOH with ultrasonic; insoluble in H₂O

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	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

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

Ferroptosis inhibitor, erastin-induced

IC₅₀ & Target

60 nM (EC₅₀) (erastin induced ferroptosis)

In Vitro

Cell Viability Assay

Cell Line:	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: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	10 nM, 100 nM, and 1 μM

	Applications:	Fer-1 (10 nM, 100 nM, and 1 μ M) significantly increased the number of healthy MSNs. Fer-1 (1 μ M) statistically increased the number of healthy MSN. Fer-1 (100 nM) fully protected oligodendrocytes from cystine deprivation. Fer-1 (0.1-2 μ M) prevented lethality induced by hydroxyquinoline and ferrous ammonium sulfate (HQ + Fe; 10 μ M each).
	Animal experiment	
In Vivo	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[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.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

2 | www.apexbt.com



