



Product Information

Product ID F182702

CAS No. 347174-05-4

Chemical Name Ethyl 3-amino-4-(cyclohexylamino)benzoate

Synonym Fer-1

Formula C₁₅H₂₂N₂O₂

Formula Wt. 262.3

Melting Point

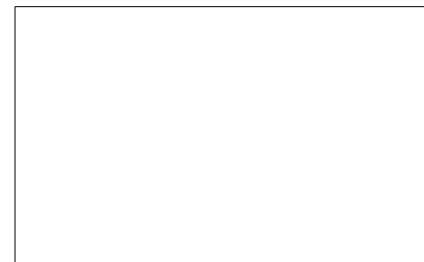
Purity 98%

Solubility

Store Temp -20°C

Ship Temp Ambient

Description Ferrostatin-1 (Fer-1) is a diarylamine-class radical trapping antioxidant (RTA) that potently inhibits ferroptosis by suppressing lipid peroxide accumulation in cellular membranes. Ferrostatin-1 does not chelate iron or restore GSH levels but instead directly quenches lipid peroxy radicals, preventing the propagation of oxidative membrane damage that drives ferroptosis. It is one of the benchmark tool compounds defining the ferroptosis pathway and is used to distinguish ferroptotic death from apoptosis, necrosis, and other cell death modalities.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
F182702	5 mg	\$85.00
F182702	25 mg	\$275.00
F182702	100 mg	\$750.00

- References**
1. Dixon SJ, Lemberg KM, Lamprecht MR, et al. Ferroptosis: an iron-dependent form of nonapoptotic cell death. *Cell*. 2012;149(5):1060-72. PMID: 22632970.
 2. Skouta R, Dixon SJ, Wang J, et al. Ferrostatins inhibit oxidative lipid damage and cell death in diverse disease models. *J Am Chem Soc*. 2014;136(12):4551-6. PMID: 24592866.
 3. Stockwell BR, Friedmann Angeli JP, Bayir H, et al. Ferroptosis: A Regulated Cell Death Nexus Linking Metabolism, Redox Biology, and Disease. *Cell*. 2017;171(2):273-285. PMID: 28753430.
 4. Friedmann Angeli JP, Schneider M, Proneth B, et al. Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. *Nat Cell Biol*. 2014;16(12):1180-91. PMID: 25402683.
 5. Ursini F, Maiorino M. Lipid peroxidation and ferroptosis: The role of GSH and GPx4. *Free Radic Biol Med*. 2020;152:175-185. PMID: 32165316.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.