



LKT Laboratories, Inc.

Liproxstatin-1

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Product Information

Product ID L339622

CAS No. 950455-15-9

Chemical Name

Synonym

Formula $C_{19}H_{21}ClN_4$

Formula Wt. 340.8

Melting Point

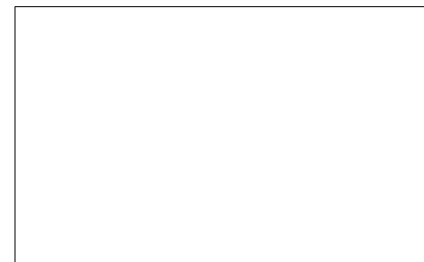
Purity $\geq 98\%$

Solubility

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Liproxstatin-1 (Lip-1) is a spiro-compound radical-trapping antioxidant (RTA) that potently inhibits ferroptosis by interrupting lipid peroxyl radical chain reactions in cellular membranes. Unlike Ferrostatin-1, Liproxstatin-1 shows greater metabolic stability and has been used in both in vitro and in vivo models to demonstrate the essential role of lipid peroxidation in ferroptotic cell death. It is also reported to inhibit oxidative cell death in settings of GPX4 genetic deletion and ischemia-reperfusion injury.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
L339622	5 mg	\$75.00
L339622	25 mg	\$295.00
L339622	100 mg	\$750.00

- References**
1. 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.
 2. Dixon SJ, Winter GE, Musavi LS, et al. Human haploid cell genetics reveals roles for lipid metabolism genes in nonapoptotic cell death. *ACS Chem Biol.* 2015;10(7):1604-9. PMID: 25965523.
 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. Ursini F, Maiorino M. Lipid peroxidation and ferroptosis: The role of GSH and GPx4. *Free Radic Biol Med.* 2020;152:175-185. PMID: 32165316.
 5. 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.

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