



LKT Laboratories, Inc.

Deferoxamine

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Product Information

Product ID D167206

CAS No. 70-51-9

Chemical Name

Synonym DFO; Desferrioxamine B; Deferoxamin

Formula $C_{25}H_{48}N_6O_8$

Formula Wt. 560.7

Melting Point

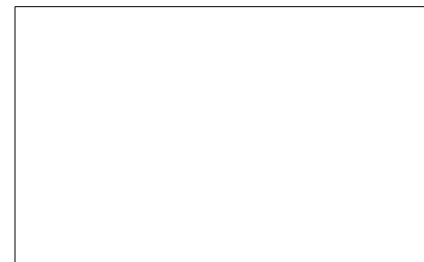
Purity $\geq 98\%$

Solubility

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

Ship Temp Ambient

Description Deferoxamine (DFO) is a hexadentate hydroxamic acid siderophore that selectively chelates ferric iron (Fe^{3+}) with very high affinity, forming a stable ferrioxamine complex. DFO is widely used in research to study iron homeostasis, ferroptosis (iron-dependent cell death), HIF signaling, and oxidative stress pathways. By depleting labile iron pools, DFO suppresses Fenton-type lipid peroxidation and is a standard tool to validate ferroptosis mechanisms.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D167206	1 mg	\$150.00
D167206	5 mg	\$250.00
D167206	10 mg	\$400.00

- 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. Cabantchik ZI, Glickstein H, Milgram P, et al. A fluorescence assay for assessing chelation of intracellular iron in a membrane model system and in mammalian cells. *Anal Biochem*. 1996;233(2):221-7. PMID: 8789158.
 3. Wang H, An P, Xie E, et al. Characterization of ferroptosis in murine models of hemochromatosis. *Hepatology*. 2017;66(2):449-465. PMID: 28195647.
 4. Papanikolaou G, Pantopoulos K. Iron metabolism and toxicity. *Toxicol Appl Pharmacol*. 2005;202(2):199-211. PMID: 15629195.
 5. 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.

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