



LKT Laboratories, Inc.

Deferoxamine Mesylate

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Product Information

Product ID D167208

CAS No. 138-14-7

Chemical Name

Synonym DFOM; Desferrioxamine B mesylate; Deferoxamin mesylate; Deferoxamine methanesulfonate

Formula $C_{26}H_{52}N_6O_{11}S$

Formula Wt. 656.8

Melting Point

Purity $\geq 98\%$

Solubility

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

Ship Temp Ambient

Description Deferoxamine mesylate (DFOM) is the methanesulfonate salt of deferoxamine (desferrioxamine B), providing excellent aqueous solubility for in vitro and in vivo experimental applications. Like the free base, DFOM chelates ferric iron (Fe^{3+}) with high selectivity and affinity, depleting labile iron pools and inhibiting iron-dependent Fenton chemistry. DFOM is a standard reagent for studying ferroptosis, hypoxia signaling (via HIF-1 α stabilization), and iron overload pathology.

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D167208	500 mg	\$175.00
D167208	1 g	\$295.00

- 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. Lane DJ, Merlot AM, Huang ML, et al. Cellular iron uptake, trafficking and metabolism: Key molecules and mechanisms and their roles in disease. *Biochim Biophys Acta*. 2015;1853(5):1130-44. PMID: 25661197.
 3. Kaelin WG Jr, Ratcliffe PJ. Oxygen sensing by metazoans: the central role of the HIF hydroxylase pathway. *Mol Cell*. 2008;30(4):393-402. PMID: 18498744.
 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.