



LKT Laboratories, Inc.

Mitoxantrone Dihydrochloride

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Product Information

Product ID M3379

CAS No. 70476-82-3

Chemical Name 1,4-dihydroxy-5,8-bis[[2-[(2-hydroxyethyl) amino]- ethyl] amino]-9,10-anthracenedione dihydrochloride

Synonym Mitoxantrone hydrochloride, Novantrone

Formula $C_{22}H_{28}N_4O_6 \cdot 2HCl$

Formula Wt. 517.41

Melting Point 160-162 °C

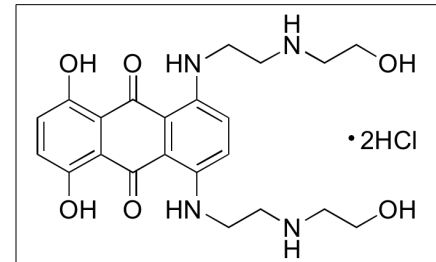
Purity ≥98%

Solubility Soluble in water, ethanol, DMSO.

Store Temp Ambient

Ship Temp Ambient

Description Mitoxantrone is an anthracenedione that exhibits immunosuppressive and anticancer chemotherapeutic activities. Mitoxantrone is clinically used to treat multiple sclerosis (MS), breast cancer, non-Hodgkin's lymphoma, acute myeloid leukemia (AML), and acute lymphoblastic leukemia (ALL). Mitoxantrone acts as an intercalator, cross-linking and forming complexes in DNA, inhibiting DNA synthesis; it also inhibits Pim-1 kinase.



Bulk quantities available upon request

Product ID	Size
M3379	50 mg
M3379	100 mg
M3379	500 mg

References Pendleton M, Lindsey RH Jr, Felix CA, et al. Topoisomerase II and leukemia. *Ann N Y Acad Sci.* 2014 Mar;1310:98-110. PMID: 24495080.

Wan X, Zhang W, Li L, et al. A new target for an old drug: identifying mitoxantrone as a nanomolar inhibitor of PIM1 kinase via kinome-wide selectivity modeling. *J Med Chem.* 2013 Mar 28;56(6):2619-29. PMID: 23442188.

Parker C, Waters R, Leighton C, et al. Effect of mitoxantrone on outcome of children with first relapse of acute lymphoblastic leukaemia (ALL R3): an open-label randomised trial. *Lancet.* 2010 Dec 11;376(9757):2009-17. PMID: 21131038.

Mazerski J, Martelli S, Borowski E. The geometry of intercalation complex of antitumor mitoxantrone and ametantrone with DNA: molecular dynamics simulations. *Acta Biochim Pol.* 1998;45(1):1-11. PMID: 9701490.

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