

Mitoxantrone hydrochloride

PRODUCT DATA SHEET

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Product Name:	Mitoxantrone hydrochloride
Product Number:	M010
CAS Number:	70476-82-3
Molecular Formula:	$C_{22}H_{28}N_4O_6 \cdot 2 HCl$
Molecular Weight:	517.40 g/mol
Form:	Powder
Solubility:	Ethanol: 1 mg/mL Water: <6%
Source:	Synthetic
Melting Point:	203-205 °C
Storage Conditions:	2-8 °C
Description:	Mitoxantrone is a sparingly soluble (0.734 mg/mL) anti-cancer agent.
Mechanism of Action:	Mitoxantrone inhibits division of T-cells, B-cells, and macrophages by preventing DNA repair and synthesis, however, this also occurs in healthy cells.
Cancer Applications	Mitoxantrone is commonly used against breast cancer, leukemia, and non-Hodgkin's lymphoma.
References:	Fox, E. J. "Mechanism of Action of Mitoxantrone." <i>PubMed</i> 63.12 (2004): n. pag. www.ncbi.gov . MS Clinic of Central Texas, 28 Dec. 2004. Web. 30 Aug. 2012.