



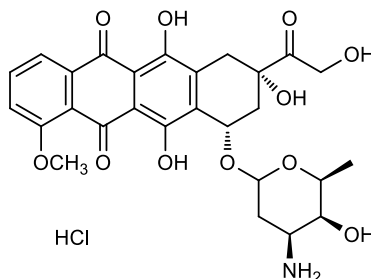
Catalog # 10-2130

Doxorubicin HCl

CAS# 25316-40-9

Adriamycin; NSC-123127

Lot # X102703



Antitumor antibiotic. Induces DNA damage by intercalation¹ and inhibition of topoisomerase II. Induces apoptosis in a variety of cell lines². Substrate for MDR1³. Cell permeable.

- 1) Zeman *et al.* (1998), *Characterization of covalent adriamycin-DNA adducts*; Proc. Natl. Acad. Sci., **95** 11561
- 2) Katoh *et al.* (1998), *Vascular endothelial growth factor inhibits apoptotic death in hematopoietic cells after exposure to chemotherapeutic drugs by inducing MCL1 acting as an antiapoptotic factor*; Cancer Res., **58** 5565
- 3) Perez *et al.* (2011), *Anti-MDR-1 siRNA restores chemosensitivity in chemoresistant breast carcinoma and osteosarcoma cell lines*; Anticancer Res., **31** 2813

PHYSICAL DATA

Molecular Weight:	579.99
Molecular Formula:	C ₂₇ H ₂₉ NO ₁₁ · HCl
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Water (up to 25 mg/ml)
Physical Description:	Red-orange solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in distilled water may be stored at -20°C for up to 3 months.

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