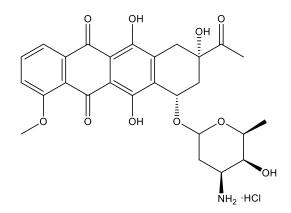


## Catalog # 10-2429 Daunorubicin HCI

CAS# 23541-50-6 Daunomycin; rubidomycin; RP-13057 Lot # X101492



Antitumor antibiotic used in the treatment of acute myeloid leukemias.<sup>1</sup> Induces DNA damage by intercalation.<sup>2</sup> Induces apoptosis in a variety of cell lines.<sup>3</sup> Inhibition of autophagy with chloroquine enhances daunorubicininduced apoptosis in K562 cells.<sup>4</sup> Cell permeable.

- 1) Laurent and Jaffrezou (2001), Signaling pathways activated by daunorubicin; Blood 98 913
- 2) Noel et al. (2008), Parallel improvement of sodium and chloride transport defects by miglustat (n-butyldeoxynojyrimicin) in cystic fibrosis; J. Pharmacol. Exp. Ther., **325** 1016
- 3) Masquelier *et al.* (2004), *Relationship between daunorubicin concentration and apoptosis induction in leukemic cells*; Biochem.Pharmacol. **67** 1047
- 4) Han et al. (2011), Autophagy inhibition enhances daunorubicin-induced apoptosis in K562 cells; PLoS One 6 e28491

## PHYSICAL DATA

Molecular Weight:	563.98
Molecular Formula:	C <sub>27</sub> H <sub>39</sub> NO <sub>10</sub> ·HCI
Purity:	>95% by TLC
	NMR: (Conforms)
Solubility:	Soluble in water (up to 25 mg/ml)
Physical Description:	Red solid
Storage and Stability:	Store as supplied desiccated 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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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