

# Idarubicin HCl

Cat. # F8100 F8101

**Also Known as:** 4-demethoxydaunorubicin (NSC256439, 4-DMDR) HCl

**Formula:**  $C_{26}H_{27}NO_9 \cdot HCl$

**MW:** 533.95 Da

**CAS No.:** 57852-57-0

**Source:** Synthetic

**Form:** Lyophilized powder

**Solubility:** Soluble in water or methanol

**Concentration:** N/A

**Quality Assurance:** >99% by HPLC and NMR

**Description:** Idarubicin HCl is a hydrochloride salt form of Idarubicin which is an anthracycline antibiotic and a DNA topoisomerase II (topo II) inhibitor for MCF-7 cells with IC50 of 3.3 ng/mL. Idarubicin is developed in an attempt to reduce the cardiotoxicity and enhance the therapeutic efficacy of the parent compound. Idarubicin HCl is an inhibitor of Topo II  $\alpha$  and an apoptosis inducer.

**Storage:** Eligible for room temperature shipping. Store at -20°C upon receiving; protect from air and light

**How to use** Idarubicin HCL was used at 0.1 nM - 10 nM in various cell-based in vitro assays.

**Literature:**

1. Fukushima T, *et al.* (1993). *Int. J. Hematol.* 57: 121-130.
2. Belaud-Rotureau MA, *et al.* (2000). *Leukemia.* 14: 1266-1275.
3. Orlandi P, *et al.* (2005) *J Chemother.* 17(6): 663-667.
4. Colburn DE, *et al.* (2004) *Hematology.* 9(3): 217-221.

