



# LKT Laboratories, Inc.

## Idarubicin Hydrochloride

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### Product Information

**Product ID** I1400

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

**Chemical Name** (7S,9S)-9-Acetyl-7-[(3-amino-2,3,6-trideoxy- $\alpha$ -L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,9,11-trihydroxy-5,12-naphthacenedione hydrochloride

**Synonym** Idamycin, Zavedos

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

**Formula Wt.** 533.96

**Melting Point** 183-185°C

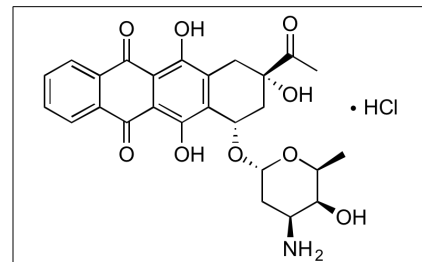
**Purity**  $\geq 98\%$

**Solubility** Soluble in water and methanol.

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** Idarubicin is an anthracycline and daunorubicin analog that exhibits anticancer chemotherapeutic activity; it is clinically used to treat leukemias. Idarubicin intercalates DNA, inhibiting topoisomerase II and inducing double-stranded DNA breaks and causing histone eviction. TEST!!!!!!



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
I1400	1 mg	\$44.80
I1400	5 mg	\$104.90
I1400	10 mg	\$239.70

**References** Eda Satana Kara H. Redox mechanism of anticancer drug idarubicin and in-situ evaluation of interaction with DNA using an electrochemical biosensor. Bioelectrochemistry. 2014 Oct;99:17-23. PMID: 24967755.

Pang B, Qiao X, Janssen L, et al. Drug-induced histone eviction from open chromatin contributes to the chemotherapeutic effects of doxorubicin. Nat Commun. 2013;4:1908. PMID: 23715267.

Crivellari D, Lombardi D, Spazzapan S, et al. New oral drugs in older patients: a review of idarubicin in elderly patients. Crit Rev Oncol Hematol. 2004 Feb;49(2):153-63. PMID: 15012975.

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