



LKT Laboratories, Inc.

## Daunorubicin Hydrochloride

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### Product Information

**Product ID** D0182

**CAS No.** 23541-50-6

**Chemical Name** (8S-cis)-8-Acetyl-10-[(3-amino-2,3,6-trideoxy- $\alpha$ -L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-5,12-naphthacenedione

**Synonym** Daunomycin, Leukaemomycin C, Rubidomycin, RP-13057, Cerubidin.

**Formula**  $C_{27}H_{29}NO_{10} \cdot HCl$

**Formula Wt.** 564.0

**Melting Point** 188-190°C(dec.)

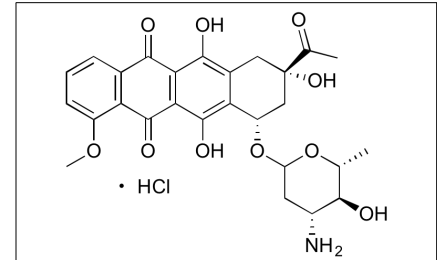
**Purity**  $\geq 98\%$

**Solubility** Soluble in water or ethanol.

**Store Temp** 4°C

**Ship Temp** Ambient

**Description** Daunorubicin is an anthracycline first produced by *Streptomyces*. Daunorubicin exhibits anticancer chemotherapeutic activity and is clinically used to treat various cancers, including neuroblastoma and acute myelogenous leukemia (AML). Like other anthracyclines, daunorubicin acts as an intercalator and inhibitor of topoisomerase II. Daunorubicin also promotes histone H2AX eviction from chromatin, inhibiting DNA repair mechanisms.



**Bulk quantities available upon request**

Product ID	Size
D0182	10 mg
D0182	50 mg
D0182	100 mg

**References** 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.

Quigley GJ, Wang AH, Ughetto G, et al. Molecular structure of an anticancer drug-DNA complex: daunomycin plus d(CpGpTpApCpG). *Proc Natl Acad Sci U S A.* 1980 Dec;77(12):7204-8. PMID: 6938965.

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