



LKT Laboratories, Inc.

Daunorubicin Hydrochloride

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID D0182

CAS No. 23541-50-6

Chemical Name (8S-cis)-8-Acetyl-10-[(3-amino-2,3,6-trideoxy- α -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.

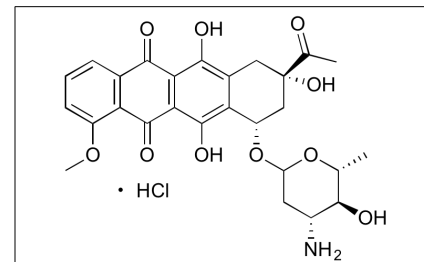
Formula $C_{27}H_{29}NO_{10} \cdot HCl$

Formula Wt. 564.0

Melting Point 188-190°C(dec.)

Purity $\geq 98\%$

Solubility Soluble in water or ethanol.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D0182	10 mg	\$71.70
D0182	50 mg	\$220.50
D0182	100 mg	\$413.50

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. TEST!!!!!!

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.