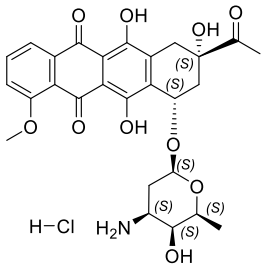


Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100240	Daunorubicin hydrochloride	A8T06K19

Chemical name	
(8S,10S)-8-acetyl-10-(((2S,4S,5S,6S)-4-amino-5-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-6,8,11-trihydroxy-1-methoxy-7,8,9,10-tetrahydrotetracene-5,12-dione hydrochloride	
Synonyms	
Daunomycin hydrochloride; daunomycin HCl; daunorubidomycine; US brand names: Cerubidine; Rubidomycin; Foreign brand names: Cerubidin; Daunoblastin; Daunoblastina; Ondena; Rubilem; Abbreviations: DNM; DNR; DRB; Code names: FI6339; RP13057.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100240 Name: Daunorubicin hydrochloride CAS#: 23541-50-6 Lot# A8T06K19 Chemical Formula: C ₂₇ H ₃₀ ClNO ₁₀ Molecular Weight: 563.98 Daunorubicin (free base) Chemical Formula: C ₂₇ H ₂₉ NO ₁₀ Exact Mass: 527.17915; Molecular Weight: 527.52

Analysis item	Specifications / Results
Appearance	Red solid powder
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>98.0%
Solubility	Soluble in water (110 mg/mL), methanol, ethanol (10 mg/mL), and DMSO (70 mg/mL).
Conclusion	This product conforms with MedKoo's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE