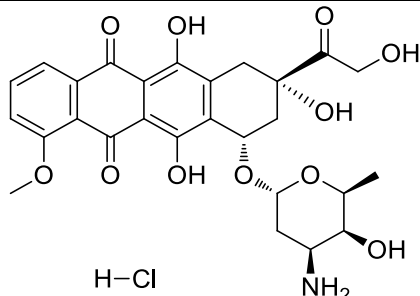




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100280	Doxorubicin hydrochloride	A20T12K09

Chemical name	
(8S,10S)-10-(((2R,4S,5S,6S)-4-amino-5-hydroxy-6-methyltetrahydro-2H-pyran-2-yl)oxy)-6,8,11-trihydroxy-8-(2-hydroxyacetyl)-1-methoxy-7,8,9,10-tetrahydrotetracene-5,12-dione hydrochloride.	
Synonyms	
ADR; Adriamycin; ADM; Adria; DOX; FI-106; FI 106; FI106.	
Chemical structure	CAS# and Theoretical analysis
 <p>H-Cl</p>	MedKoo Cat#: 100280 Name: Doxorubicin hydrochloride CAS#: 25316-40-9 (HCl) Lot#: A20T12K09 Chemical Formula: C ₂₇ H ₃₀ ClNO ₁₁ Molecular Weight: 579.98

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)	>99.0%
Solubility	Soluble in DMSO at 100 mg/mL; very poorly soluble in ethanol; soluble in water at 10 mg/mL with slight warming.
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