

Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100960	Doxorubicin free base	ZY210816

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		
Synonyms		
ADR; Adriamycin, ADM; Adria; DOX. Code name: FI-106		
Chemical structure	CAS# and Theoretical analysis	
	MedKoo Cat#: 100960 Name: Doxorubicin free base CAS#: 23214-92-8 Lot#: ZY210816 Chemical Formula: $C_{27}H_{29}NO_{11}$ Exact Mass: 543.17406 Molecular Weight: 543.52	

Analysis item	Specifications / Results	
Appearance	Deep-red to black 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)	>95.0%	
Solubility	Slightly soluble in DMSO, very poorly soluble in ethanol and water	
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