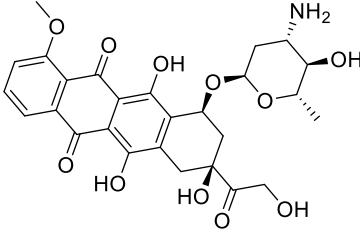




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100971	Epirubicin free base	YXM210113

Chemical name	
(8S,10S)-10-(((2R,4S,5R,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	
Epirubicin free base; IMI28; IMI 28; IMI-28; 4-epi DX; EPI; epi DX; 4-epiadriamycin; 4-epidoxorubicin; 4-epidoxorubicin HCl; epiADR; epidoxorubicin; epidorubicin; brand name: Ellence; Pharmorubicin PFS	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100971 Name: Epirubicin free base CAS#: 56420-45-2 (free base) Lot#: YXM210113 Chemical Formula: C ₂₇ H ₂₉ NO ₁₁ Exact Mass: 543.1741 Molecular Weight: 543.53

Analysis item	Specifications / Results
Appearance	Dark 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)	>97.0%
Solubility	This product was not soluble in common used solvents. It has low solubility (2 mg/mL with aid of ultrasonic) in Ethanol plus chloroform (1:1, v/v)
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 3 years if properly stored.

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