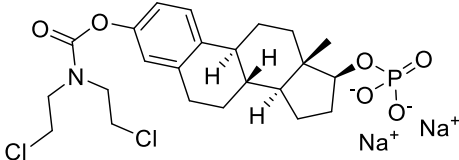




## Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100310	Estramustine phosphate sodium	A8T07K03

Chemical name	
sodium (8R,9S,13S,14S,17S)-3-((bis(2-chloroethyl)carbamoyl)oxy)-13-methyl-7,8,9,11,12,13,14,15,16,17-decahydro-6H-cyclopenta[a]phenanthren-17-yl phosphate	
Synonyms	
Ro 21-8837/001; Leo299; Ro 222296000; LS 299; NSC 89199; estramustine Phosphate sodium; Emcyt. Estracyt.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100310 Name: Estramustine phosphate sodium CAS#: 52205-73-9 (sodium) Lot#: A8T07K03 Chemical Formula: C <sub>23</sub> H <sub>30</sub> Cl <sub>2</sub> NNa <sub>2</sub> O <sub>6</sub> P Molecular Weight: 564.35

Analysis item	Specifications / Results
Appearance	White to off-white solid powder
Structure	<sup>1</sup> 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 DMSO.
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**  
Label: