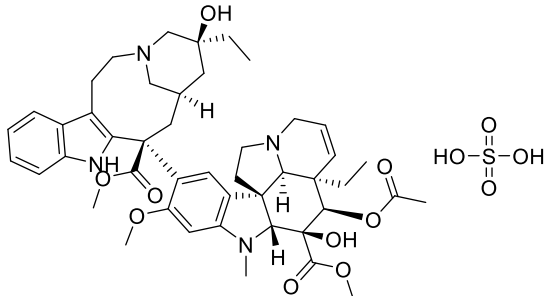




Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100911	Vinblastine sulfate	TZC51104

Chemical name	
(3aR,3a1R,4R,5S,5aR,10bR)-methyl 4-acetoxy-3a-ethyl-9-((5S,7R,9S)-5-ethyl-5-hydroxy-9-(methoxycarbonyl)-2,4,5,6,7,8,9,10-octahydro-1H-3,7-methano[1]azacycloundecino[5,4-b]indol-9-yl)-5-hydroxy-8-methoxy-6-methyl-3a,3a1,4,5,5a,6,11,12-octahydro-1H-indolizino[8,1-cd]carbazole-5-carboxylate sulfate	
Synonyms	
Vincalencoblastine. US brand names: Velban; Velsar. Abbreviation: VLB.	
Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100911 Name: Vinblastine sulfate CAS#: 143-67-9 Lot#: TZC51104 Chemical Formula: C ₄₆ H ₆₀ N ₄ O ₁₃ S Molecular Weight: 909.05

Analysis item	Specifications / Results
Appearance	White to off-white 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.
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
Self life	At least 5 years if properly stored.

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