



## Product Information

Product ID V5254

CAS No. 2068-78-2

Chemical Name 22-Oxovincalcoloblastine sulfate

Synonym Kyocristine, Oncovin, Vincrex

Formula  $C_{46}H_{56}N_4O_{10} \cdot H_2O_4S$

Formula Wt. 923.05

Melting Point 273-281 °C

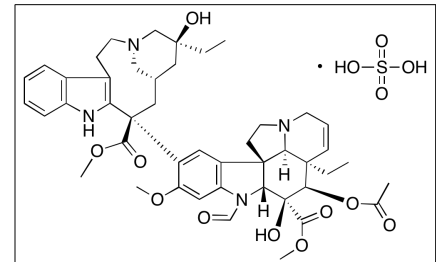
Purity  $\geq 98\%$

Solubility Soluble in water (50 mg/mL),  
methanol (20 mg/mL), PBS (2  
mg/mL). Slightly soluble in  
ethanol or chloroform.

Store Temp -20 °C

Ship Temp Ambient

Description Vincristine is a vinca alkaloid found in *Catharanthus* that exhibits immunosuppressive and anticancer chemotherapeutic activities. Vincristine is an anti-mitotic that binds tubulin and inhibits microtubule polymerization; it is clinically used to treat lymphomas and leukemias and is one component of the CHOP chemotherapy cocktail. In melanoma cells, vincristine increases activation of AMPK and inhibition of mTORC1 signaling.



**Bulk quantities available upon request**

Product ID	Size
V5254	5 mg
V5254	10 mg
V5254	25 mg

References Wang L, Xia ZJ, Huang HQ, et al. Cyclophosphamide, doxorubicin, vincristine, and prednisone (CHOP) in the treatment of stage IE/IIIE extranodal natural killer/T cell lymphoma, nasal type: 13-year follow-up in 135 patients. *Int J Hematol.* 2012 Nov;96(5):617-23. PMID: 22983648.

Chen MB, Shen WX, Yang Y, et al. Activation of AMP-activated protein kinase is involved in vincristine-induced cell apoptosis in B16 melanoma cell. *J Cell Physiol.* 2011 Jul;226(7):1915-25. PMID: 21506122.

Jordan MA, Wilson L. Microtubules as a target for anticancer drugs. *Nat Rev Cancer.* 2004 Apr;4(4):253-65. PMID: 15057285.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.