

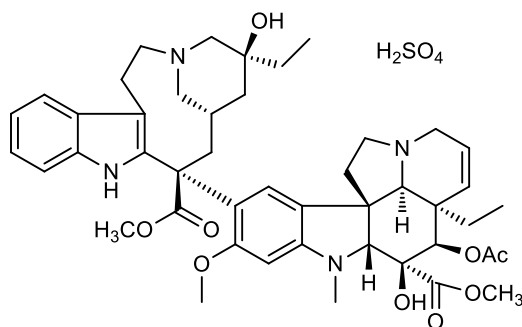
Catalog # 10-2050

Vinblastine sulfate

CAS# 143-67-9

Vincalkekoblastine

Lot # X101513



Semisynthetic alkaloidal anticancer agent. Induces cell cycle arrest at G2/M phase by inhibiting mitotic spindle formation¹. Inhibits normal microtubule assembly and induces aberrant tubulin polymerization¹. Induces apoptosis in a variety of cell lines². Inhibits autophagosome maturation³. Inhibits palmitoylation of tubulin⁴.

- 1) Hamel *et al.* (1996), *Antimitotic natural products and their interactions with tubulin*; *Med. Res. Rev.*, **16** 207
- 2) Tsukidate *et al.* (1993), *Microtubule antagonists activate programmed cell death (apoptosis) in cultured rat hepatocytes*; *Am. J. Pathol.*, **143** 918
- 3) Satori *et al.* (2013), *Describing autophagy via analysis of individual organelles by capillary electrophoresis with laser induced fluorescence detection*; *Anal. Chem.*, **85** 11391
- 4) Caron and Herwood (2007), *Vinblastine, a chemotherapeutic drug, inhibits palmitoylation of tubulin in human leukemic lymphocytes*; *Chemotherapy*, **53** 51

PHYSICAL DATA

Molecular Weight:	909.08
Molecular Formula:	C ₄₆ H ₅₈ N ₄ O ₉ · H ₂ SO ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Water (up to 50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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