

**Product Name:** Vinblastine sulfate

**Catalog No.:** 1256

**Batch No.:** 3

CAS Number: 143-67-9

EC Number: 205-606-0

IUPAC Name: Vincalukoblastine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>46</sub>H<sub>58</sub>N<sub>4</sub>O<sub>9</sub>·H<sub>2</sub>SO<sub>4</sub>·4H<sub>2</sub>O

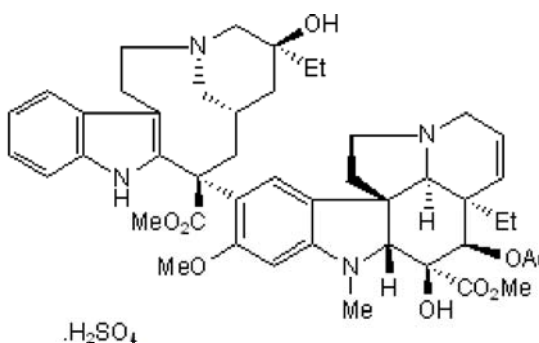
**Batch Molecular Weight:** 981.12

**Physical Appearance:** Off White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 95.4% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.31	6.99	5.71
Found	55.91	6.98	5.7

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 143-67-9

IUPAC Name: Vincalukoblastine

**Catalog No.:** 1256

**Batch No.:** 3

EC Number: 205-606-0

**Description:**

Anticancer agent; microtubule disrupter. Induces apoptosis in cultured hepatocytes and human lymphoma cells. Shown to inhibit autophagosome maturation.

**Physical and Chemical Properties:**

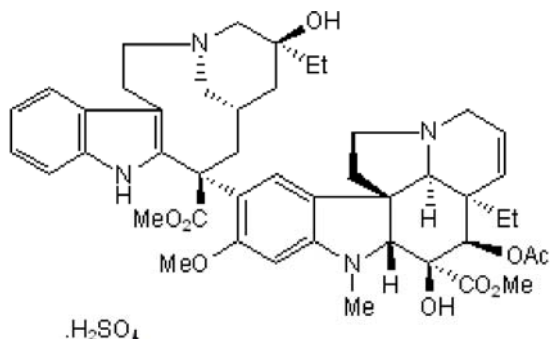
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Batch Molecular Weight: 981.12

Physical Appearance: Off White solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Veldhoen *et al*** (2012) The chemotherapeutic agent PacT. inhibits autophagy through two distinct mechanisms that regulate apoptosis. *Oncogene* **32** 736. PMID: 22430212.

**Rai and Wolf** (1998) Localization of critical histidyl residues required for vinblastine-induced tubulin polymerization and for microtubulin assembly. *J.Biol.Chem.* **273** 31131. PMID: 9813016.

**Tsukidate *et al*** (1993) Microtubule antagonists activate programmed cell death (apoptosis) in cultured rat hepatocytes. *Am.J.Pathol.* **143** 918. PMID: 8362985.

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