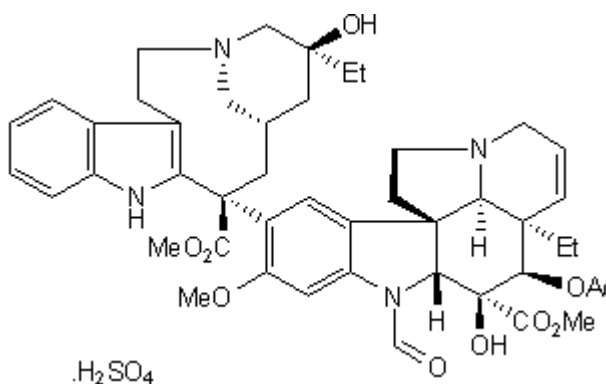


**Product Name:** Vincristine sulfate  
**CAS Number:** 2068-78-2  
**IUPAC Name:** 22-Oxovincal leukoblastine

**Catalog No.:** 1257  
**Batch No.:** 4  
**EC Number:** 218-190-0

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_{46}H_{56}N_4O_{10} \cdot H_2SO_4 \cdot 3\frac{1}{2}H_2O$   
**Batch Molecular Weight:** 986.09  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 96.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.03	6.64	5.68
Found	56.03	6.58	5.69

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

**Product Name:** Vincristine sulfate  
CAS Number: 2068-78-2  
IUPAC Name: 22-Oxovincalcoloblastine

**Catalog No.:** 1257 **Batch No.:** 4  
EC Number: 218-190-0

**Description:**

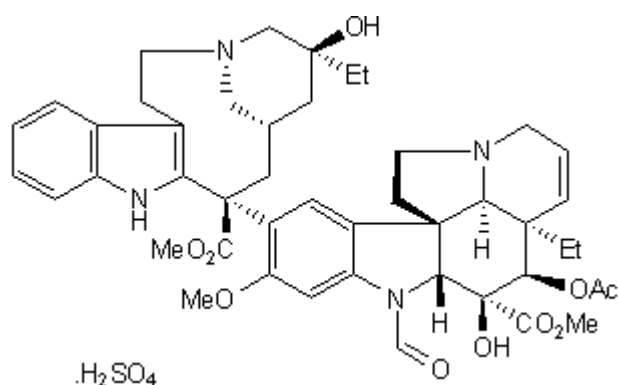
Anticancer agent; microtubule disrupter. Induces apoptosis in human lymphoma cells.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>46</sub>H<sub>56</sub>N<sub>4</sub>O<sub>10</sub>·H<sub>2</sub>SO<sub>4</sub>·3½H<sub>2</sub>O  
Batch Molecular Weight: 986.09  
Physical Appearance: White solid

**Minimum Purity:** >96%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM  
This product contains 1 molar equivalent of ethanol.

**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:**

- Jordan et al** (1985) Comparison of the effects of vinblastine, vincristine, vindesine, and vinepidine on microtubule dynamics and cell proliferation *in vitro*. *Cancer Res.* **45** 2741. PMID: 3986806.
- Takano et al** (1993) Apoptosis induced by microtubule disrupting drugs in cultured human lymphoma cells. Inhibitory effects of phorbol ester and zinc sulphate. *Pathol.Res.Pract.* **189** 197. PMID: 8321748.
- Wang et al** (1999) The effect of antimicrotubule agents on signal transduction pathways of apoptosis. *Cancer Chemother.Pharmacol.* **44** 355. PMID: 10501907.

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**bio-techne.com**  
info@bio-techne.com  
techsupport@bio-techne.com

**North America**  
Tel: (800) 343 7475

**China**  
info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**  
Tel: +44 (0)1235 529449

**Rest of World**  
www.tocris.com/distributors  
Tel:+1 612 379 2956