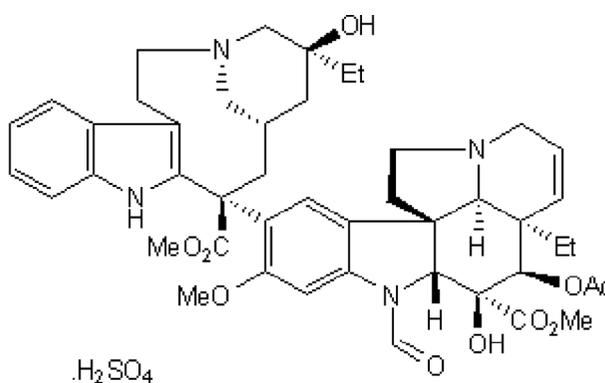


Product Name: Vincristine sulfate
CAS Number: 2068-78-2
IUPAC Name: 22-Oxovincaleukoblastine

Catalog No.: 1257
Batch No.: 5
EC Number: 218-190-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₆H₅₆N₄O₁₀·H₂SO₄·4¼H₂O
Batch Molecular Weight: 999.59
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.27	6.71	5.6
Found	54.32	6.66	5.41

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

Product Name: Vincristine sulfate
CAS Number: 2068-78-2
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EC Number: 218-190-0 **5**

Description:

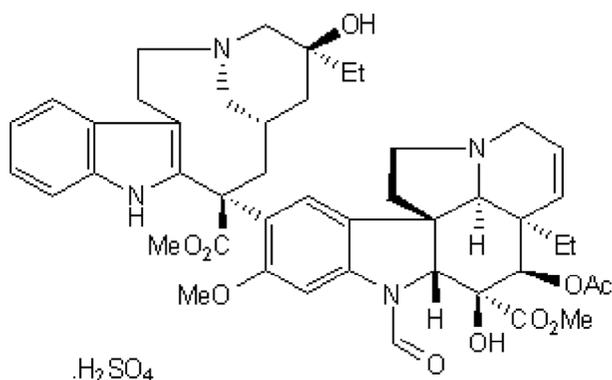
Vincristine sulfate is a anticancer agent; microtubule disrupter. Induces apoptosis in human lymphoma cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₆H₅₆N₄O₁₀.H₂SO₄.4¹/₄H₂O
Batch Molecular Weight: 999.59
Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Wang et al (1999) The effect of antimicrotubule agents on signal transduction pathways of apoptosis. *Cancer Chemother.Pharmacol.* **44** 355. PMID: 10501907.

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.

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.

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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