

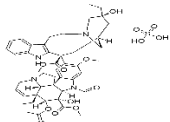
PRODUCT: Vincristine Sulfate

ALTERNATE NAMES: 22-Oxovincalcakoblastine sulfate salt, Leurocristine sulfate salt, VCR

CATALOG NUMBER: B2048-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: C₄₆H₅₆N₄O₁₀ · H₂SO₄

MOLECULAR WEIGHT: 923.04

CAS NUMBER: 2068-78-2

APPEARANCE: White to off-white solid

SOLUBILITY: DMSO (~5 mg/ml)

PURITY: ≥95%

STORAGE: Store at -20 °C. Protect from air and moisture

DESCRIPTION: Vincristine is a plant alkaloid isolated from *Vinca Rosea* that irreversibly blocks mitosis by binding to tubulin (K_i = 85 nM) and inhibiting tubulin polymerization. It arrests cell cycle in G2/M-phase by blocking mitotic spindle formation. Vincristine is exported from cells *via* the ATP-binding cassette transporter P-glycoprotein, but not by multidrug resistance-associated protein.

REFERENCES: Jordan, M.A., *et al.* (1985). *Cancer Res.* **45**, 2741-2747.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Betulinic Acid (Cat. No. 1552-25)
- Bexarotene (Cat. No. 1575-5, 50)
- Capecitabine (Cat. No. 1741-100, 1000)
- Carboplatin (Cat. No. 1553-100)
- Cisplatin (Cat. No. 1550-100,1000)
- Daunorubicin.HCl (1524-10,50,500)
- Doxorubicin HCl (Cat. No. 1527-5)
- (-)-Epigallocatechin gallate (Cat. No. 1841-50)
- Fludarabine Phosphate (Cat. No. 1763-10, 50)
- Gemcitabine Hydrochloride (Cat. No. 1759-25, 100)
- Genistein (Cat. No. 1533-10)
- Nedaplatin (Cat. No. 1576-5)
- Oxaliplatin (Cat. No. 1577-25)
- Piperlongumine (Cat. No. 1919-10, 50)
- Paclitaxel (Cat. No. 1567-25)
- Pixantrone maleate (Cat. No. 1958-5, 25)
- Tamoxifen Citrate (Cat. No. 1551-1000)
- Vinblastine Sulfate (Cat. No.1959-5,25)
- Vincristine Sulfate (Cat. No. B2048-5,25)
- Vinorelbine tartrate (Cat. No. 1957-5, 25)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans**