**Product Information**

**Vinorelbine ditartrate salt hydrate**

Product Number V2264

Storage Temperature 2–8 °C

CAS RN 125317-39-7 (anhydrous)

Synonym: 3',4'-Didehydro-4'-deoxy-C'-norvincaleukoblastine

**Product Description**

![Chemical structure of Vinorelbine](image)

Molecular Formula: C_{45}H_{54}N_{4}O_{8} \cdot 2C_{4}H_{6}O_{6} \cdot xH_{2}O

Molecular Weight: 1079.11 (anhydrous)

Vinorelbine induces disassociation of cellular microtubules, most likely by modifying the dynamics of the spindle microtubules. This suppression of microtubule dynamics appears to cause a mitotic block by activating the metaphase-anaphase checkpoint.

Vinorelbine arrests cell cycle and inhibits microtubule assembly by binding tubulin and inducing coiled spiral aggregate formation. Microtubules are present in mitotic spindles, neuronal axons, and other cells. Inhibition of mitotic microtubules appears to correlate with antitumor activity, while inhibition of axonal microtubules seems to correlate with neurotoxicity. Compared to vincristine and vinblastine, vinorelbine is more selective against mitotic than axonal microtubules in vitro, which may account for its decreased neurotoxicity. Like the other Vinca alkaloids, vinorelbine has a potency in the submicromolar range.

**Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**

Store the product at 2–8 °C.

**References**


KAA,MAM 10/06-1

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