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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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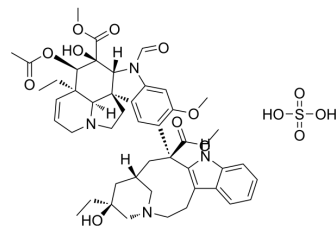
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Vincristine sulfate (Standard)

Cat. No.:	HY-N0488R
CAS No.:	2068-78-2
Molecular Formula:	C ₄₆ H ₅₈ N ₄ O ₁₄ S
Molecular Weight:	923.04
Target:	Apoptosis; Microtubule/Tubulin
Pathway:	Apoptosis; Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Vincristine (sulfate) (Standard) is the analytical standard of Vincristine (sulfate). This product is intended for research and analytical applications. Vincristine sulfate is an antitumor vinca alkaloid which inhibits microtubule formation in mitotic spindle, resulting in an arrest of dividing cells at the metaphase stage. It binds to microtubule with a K_i of 85 nM.

REFERENCES

- [1]. Jordan, M.A., et al. Comparison of the effects of vinblastine, vincristine, vindesine, and vinepidine on microtubule dynamics and cell proliferation in vitro. *Cancer Res*, 1985. 45(6): p. 2741-7.
- [2]. Gidding, C.E., et al, Vincristine revisited. *Crit Rev Oncol Hematol*, 1999. 29(3): p. 267-87.
- [3]. Donoso, J.A., et al, Action of the vinca alkaloids vincristine, vinblastine, and desacetyl vinblastine amide on axonal fibrillar organelles in vitro. *Cancer Res*, 1977. 37(5): p. 1401-7.
- [4]. Horton, J.K., et al. Relationships between tumor responsiveness, vincristine pharmacokinetics and arrest of mitosis in human tumor xenografts. *Biochem Pharmacol*, 1988. 37(20): p. 3995-4000.
- [5]. Baguley, B.C., et al, Inhibition of growth of colon 38 adenocarcinoma by vinblastine and colchicine: evidence for a vascular mechanism. *Eur J Cancer*, 1991. 27(4): p. 482-7.
- [6]. Zhang D, et al. Co-delivery nanoparticles with characteristics of intracellular precision release drugs for overcoming multidrug resistance. *Int J Nanomedicine*. 2017 Mar 16;12:2081-2108.

Caution: Product has not been fully validated for medical applications. For research use only.

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