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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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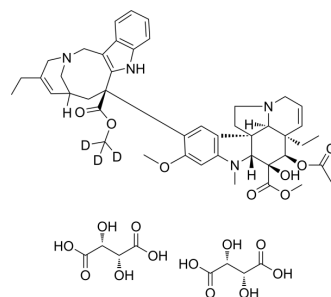
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Vinorelbine-d₃ ditartrate

Cat. No.:	HY-12053AS
Molecular Formula:	C ₅₃ H ₆₃ D ₃ N ₄ O ₂₀
Molecular Weight:	1082.12
Target:	Microtubule/Tubulin; Autophagy
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Autophagy
Storage:	-80°C, protect from light, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (92.41 mM; Need ultrasonic)
	DMSO : 100 mg/mL (92.41 mM; Need ultrasonic)
In Vivo	

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.9241 mL	4.6206 mL	9.2411 mL
	5 mM		0.1848 mL	0.9241 mL	1.8482 mL
	10 mM		0.0924 mL	0.4621 mL	0.9241 mL

Please refer to the solubility information to select the appropriate solvent.

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (2.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (2.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (2.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Vinorelbine-d ₃ (ditartrate) is the deuterium labeled Vinorelbine ditartrate. Vinorelbine (ditartrate) is an anti-mitotic agent which inhibits the proliferation of Hela cells with IC ₅₀ of 1.25 nM.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Ngan VK, et al. Mechanism of mitotic block and inhibition of cell proliferation by the semisynthetic Vinca alkaloids vinorelbine and its newer derivative vinflunine. *Mol Pharmacol*. 2001 Jul;60(1):225-32.
- [3]. Liu XM, et al. Unique induction of p21(WAF1/CIP1) expression by vinorelbine in androgen-independent prostate cancer cells. *Br J Cancer*. 2003 Oct 20;89(8):1566-73.
- [4]. Poirier VJ, et al. Toxicity, dosage, and efficacy of vinorelbine (Navelbine) in dogs with spontaneous neoplasia. *J Vet Intern Med*. 2004 Jul-Aug;18(4):536-9.
- [5]. Pierro JA, et al. Phase I clinical trial of vinorelbine in tumor-bearing cats. *J Vet Intern Med*. 2013 Jul-Aug;27(4):943-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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