Tallimustine

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-105270 115308-98-0 C ₃₂ H ₃₈ Cl ₂ N ₁₀ O ₄ 697.61 Others Others Please store the product under the recommended conditions in the Certificate of Analysis.	CI NH CI CI CI CI CI CI CI CI CI CI CI CI CI
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BIOLOGICAL ACTIVITY				
Description	Tallimustine (FCE 24517), a distamycin-A derivative, is an anticancer agent ^{[1][2][4]} .			
In Vitro	Tallimustine (0.1-10 μM, 4 h) induces damage to purified SV40 DNA ^[1] . Tallimustine (72 h) shows cytotoxicity in CEM Cells, with an IC ₅₀ of 3.5 nM ^[1] . Tallimustine (25 and 100 nM, 6 days) induces erythroid differentiation of K562 cells ^[2] . Tallimustine (100 nM, 6 days) increases accumulation of γ-globin mRNA in K562 cells ^[2] . Tallimustine (0.5 μg/mL, 1 h) arrests SW626 cells in G2/M phase ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[2]			
	Cell Line:	K562 cells		
	Concentration:	25 and 100 nM		
	Incubation Time:	4 days		
	Result:	Inhibited cell proliferation.		
In Vivo	Tallimustine (3 mg/kg, i.p.) shows antileukaemic activity in L1210 tumor bearing mice ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	L1210 tumor bearing mice ^[2] .		
	Dosage:	3 mg/kg		
	Administration:	Intraperitoneal injection (i.p.)		
	Result:	Prolonged the survival of mice.		

REFERENCES

[1]. Herzig MC, et al. Tallimustine lesions in cellular DNA are AT sequence-specific but not region-specific. Biochemistry. 1999 Oct 19;38(42):14045-55.

[2]. Bianchi N, et al. Accumulation of gamma-globin mRNA and induction of erythroid differentiation after treatment of human leukaemic K562 cells with tallimustine. Br J Haematol. 2001 Jun;113(4):951-61.

[3]. Erba E, et al. Comparison of cell-cycle phase perturbations induced by the DNA-minor-groove alkylator tallimustine and by melphalan in the SW626 cell line. Int J Cancer. 1995 Jul 17;62(2):170-5.

[4]. Tagliabue G, et al. Combination of the new minor groove alkylator tallimustine and melphalan. Eur J Cancer. 1997 Feb;33(2):284-7.

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

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