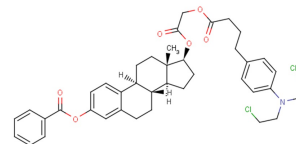


Atrimustine

Chemical Properties

CAS No.:	75219-46-4
Formula:	C ₄₁ H ₄₇ Cl ₂ NO ₆
Molecular Weight:	720.72
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Atrimustine is a conjugate of chlorambucil and β -estradiol benzoate. It has the antitumor activity.
Targets(IC ₅₀)	Others: None
In vitro	Atrimustine (Bestrabucil) is a conjugate of chlorambucil and β -estradiol benzoate. Which has high affinity for tumor cells and enhances the antitumor activity of chlorambucil[1]. At Atrimustine concentrations of 100 nM-10 μ M, concentration-dependent inhibition of growth factor production by SC-115 cells can be demonstrated by 3H-thymidine uptake assay[2]. The effect of Atrimustine (Bestrabucil), a benzoate of an estradiol-chlorambucil conjugate, is examined on the production of growth factor(s) by Shionogi carcinoma 115 (SC-115) cells, an androgen-responsive cultured cancer cell line.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.388 mL	6.938 mL	13.875 mL
5 mM	0.278 mL	1.388 mL	2.775 mL
10 mM	0.139 mL	0.694 mL	1.388 mL
50 mM	0.028 mL	0.139 mL	0.278 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Ezaki K, et al. A combination trial of human lymphoblastoid interferon and bestabucil (KM2210) for adult T-cell leukemia-lymphoma. Cancer. 1991 Aug 15;68(4):695-8.
- Akaza H, et al. Inhibitory effects of bestabucil, a conjugate of chlorambucil and estradiol, on the production of androgen-induced growth factor(s) by Shionogi carcinoma 115 cells. Int J Urol. 1994 Mar;1(1):67-73.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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