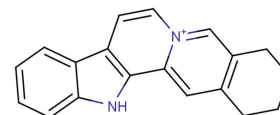


Sempervirine

Chemical Properties

CAS No.:	6882-99-1
Formula:	C19H16N2
Molecular Weight:	272.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Sempervirine can unwind circular DNA, it shows selective inhibition of in vitro synthesis of cancer DNA .
Targets(IC ₅₀)	DNA/RNA Synthesis: None
In vitro	The high template in vitro activity of native DNA from cancerous mammalian and plant tissues, compared to DNA from healthy tissues, enabled us to select substances which selectively inhibit cancer DNA synthesis. Among them, alstonine, serpentine, Sempervirine and flavopereirine, all alkaloids which belong to the Beta-carboline class, distinguish cancer DNA from healthy tissue DNA inhibit DNA in vitro synthesis when native DNA from different cancerous tissues or cells is used as template. They have practically no effect on DNA from healthy tissues. The inhibitory effect of alkaloids is due to their capacity to form an 'alkaloid-cancer DNA' complex which has been characterized by use of the Sephadex column.

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	3.671 mL	18.355 mL	36.711 mL
5 mM	0.734 mL	3.671 mL	7.342 mL
10 mM	0.367 mL	1.836 mL	3.671 mL
50 mM	0.073 mL	0.367 mL	0.734 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

1. Selective inhibition of in vitro synthesis of cancer DNA by alkaloids of beta-carboline class. *Exp Cell Biol.* 1982;50(2):79-87.

Inhibitors · Natural Compounds · Compound Libraries

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