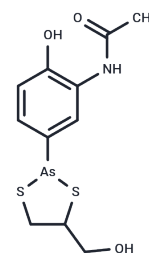


## Arsthinol

## Chemical Properties

CAS No. :	119-96-0
Formula:	C11H14AsNO3S2
Molecular Weight:	347.29
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Arsthinol is an antiprotozoal agent which may have anti-cancer activity. It was found that arsthinol, a trivalent organoarsenic compound (dithiarsolane), has been active in vitro on leukemia cell lines and offers a better therapeutic index than arsenic trioxide, as estimated by the ratio LD50/IC50. Arsthinol induced growth inhibition of NB4 cells at lower concentration (IC50 (concentration inhibiting growth by 50%) = 0.78 +/- 0.08 micromol/l after 24 h) than As(2)O(3) (IC50 = 1.60 +/- 0.23 micromol/l after 24 h) or melarsoprol (IC50 = 1.44 +/- 0.08 micromol/l after 24 h). Arsthinol-cyclodextrin complex demonstrated to have was more effective than arsenic trioxide (As2O3) and melarsoprol on the U87 MG cell line. Importantly, in the in vivo study, significant antitumor activity against heterotopic xenografts was observed after i.p. administration.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8794 mL	14.3972 mL	28.7944 mL
5 mM	0.5759 mL	2.8794 mL	5.7589 mL
10 mM	0.2879 mL	1.4397 mL	2.8794 mL
50 mM	0.0576 mL	0.2879 mL	0.5759 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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