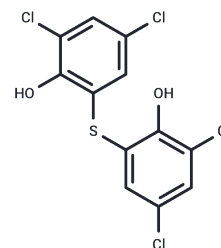


Bithionol

Chemical Properties

CAS No. :	97-18-7
Formula:	C ₁₂ H ₆ Cl ₄ O ₂ S
Molecular Weight:	356.05
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	Bithionol (Actamer), formerly marketed as an active ingredient in various topical drug products, was shown to be a potent photosensitizer with the potential to cause serious skin disorders. Approvals of the NDA's for bithionol drug products were withdrawn on October 24, 1967.
Targets(IC50)	cAMP,Antibacterial,Parasite,Photosensitizer
Cell Research	Ovarian cancer cell lines (5×10 ³ cells/well) were plated into 96-well flat bottom plates (Corning, Inc., Corning, NY) and incubated for overnight. Cells were treated with different concentrations of BT ranging from 0.178 μM to 400 μM and further incubated for 48 hrs or 72 hrs. (Only for Reference)

Solubility Information

Solubility	DMSO: 250 mg/mL (702.15 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 21 mg/mL (58.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (28.09 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (28.09 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8086 mL	14.043 mL	28.0859 mL
5 mM	0.5617 mL	2.8086 mL	5.6172 mL
10 mM	0.2809 mL	1.4043 mL	2.8086 mL
50 mM	0.0562 mL	0.2809 mL	0.5617 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.

Reference

Xie Y, Cwiertny DM. Environ Sci Technol. 2010 Nov 15;44(22):8649-8655.

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