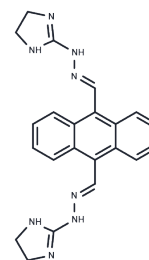


Bisantrene

Chemical Properties

CAS No. :	78186-34-2
Formula:	C ₂₂ H ₂₂ N ₈
Molecular Weight:	398.46
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	Bisantrene (CL216942) is an anthracenyl bishydrazone with antineoplastic activity. Bisantrene intercalates with and disrupts the configuration of DNA, resulting in DNA single-strand breaks, DNA-protein crosslinking, and inhibition of DNA replication. This agent is similar to doxorubicin in activity, but unlike doxorubicin, does not exhibit cardiotoxicity.
Targets(IC50)	Topoisomerase

Solubility Information

Solubility	H ₂ O: 0.1 mg/mL (0.25 mM), Sonication and heating to 50°C are recommended. DMSO: 1 mg/mL (2.51 mM), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5097 mL	12.5483 mL	25.0966 mL
5 mM	0.5019 mL	2.5097 mL	5.0193 mL
10 mM	0.251 mL	1.2548 mL	2.5097 mL
50 mM	0.0502 mL	0.251 mL	0.5019 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

Sissi C, et al. DNA-binding preferences of Bisantrone analogues: relevance to the sequence specificity of drug-mediated topoisomerase II poisoning. Mol Pharmacol. 1998 Dec;54(6):1036-45.

Yap HY, et al. Bisantrone, an active new drug in the treatment of metastatic breast cancer. Cancer Res. 1983 Mar; 43(3):1402-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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