

XR 5944

## Chemical Properties

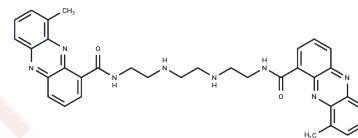
CAS No. : 343247-32-5

Formula: C<sub>34</sub>H<sub>34</sub>N<sub>8</sub>O<sub>2</sub>

Molecular Weight: 586.69

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	XR 5944 is an antitumor compound that targets DNA, is a topoisomerase inhibitor, inhibits ER activity, and can be used to study colon and lung cancer.
Targets(IC50)	Estrogen/progestogen Receptor,Endogenous Metabolite,DNA,Topoisomerase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7045 mL	8.5224 mL	17.0448 mL
5 mM	0.3409 mL	1.7045 mL	3.409 mL
10 mM	0.1704 mL	0.8522 mL	1.7045 mL
50 mM	0.0341 mL	0.1704 mL	0.3409 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

- Lin C, et al. DNA Recognition by a Novel Bis-Intercalator, Potent Anticancer Drug XR5944. *Curr Top Med Chem.* 2015; 15(14):1385-97. Review. PubMed PMID: 25866279; PubMed Central PMCID: PMC4772870.
- Lin C, et al. Solution structure of a 2:1 complex of anticancer drug XR5944 with TFF1 estrogen response element: insights into DNA recognition by a bis-intercalator. *Nucleic Acids Res.* 2014 May;42(9):6012-24. doi: 10.1093/nar/gku219. Epub 2014 Apr 7. PubMed PMID: 24711371; PubMed Central PMCID: PMC4027214.
- Moorthy NS, et al. Fernandes PA. Fused aryl-phenazines: scaffold for the development of bioactive molecules. *Curr Drug Targets.* 2014;15(7):681-8. Review. PubMed PMID: 24499398.
- Sidell N, et al. Intercalation of XR5944 with the estrogen response element is modulated by the tri-nucleotide spacer sequence between half-sites. *J Steroid Biochem Mol Biol.* 2011 Apr;124(3-5):121-7. doi: 10.1016/j.jsbmb.2011.02.003. Epub 2011 Feb 17. PubMed PMID: 21333738; PubMed Central PMCID: PMC3072055.

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