

XR-5000

Chemical Properties

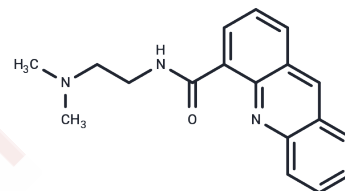
CAS No. : 89459-25-6

Formula: C₁₈H₁₉N₃O

Molecular Weight: 293.36

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-5000 is a DNA topoisomerase I and II inhibitor.
Targets(IC50)	Others,Topoisomerase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4088 mL	17.0439 mL	34.0878 mL
5 mM	0.6818 mL	3.4088 mL	6.8176 mL
10 mM	0.3409 mL	1.7044 mL	3.4088 mL
50 mM	0.0682 mL	0.3409 mL	0.6818 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

Soo JC, Lee EG, Lee LA, Kashon ML, Harper M. Evaluation of pump pulsation in respirable size-selective sampling: Part III. Investigation of European standard methods. *Ann Occup Hyg*. 2014 Oct;58(8):1006-17. doi: 10.1093/annhyg/meu047. PubMed PMID: 25053700; PubMed Central PMCID: PMC4702258.

Saleem A, Aboagye EO, Matthews JC, Price PM. Plasma pharmacokinetic evaluation of cytotoxic agents radiolabelled with positron emitting radioisotopes. *Cancer Chemother Pharmacol*. 2008 Apr;61(5):865-73. PubMed PMID: 17639391.

Gilroy KL, Leontiou C, Padget K, Lakey JH, Austin CA. mAMSA resistant human topoisomerase IIbeta mutation G465D has reduced ATP hydrolysis activity. *Nucleic Acids Res*. 2006 Mar 20;34(5):1597-607. PubMed PMID: 16549872; PubMed Central PMCID: PMC1405819.

Dittrich C, Dieras V, Kerbrat P, Punt C, Sorio R, Caponigro F, Paoletti X, de Balincourt C, Lacombe D, Fumoleau P. Phase II study of XR5000 (DACA), an inhibitor of topoisomerase I and II, administered as a 120-h infusion in patients with advanced ovarian cancer. *Invest New Drugs*. 2003 Aug;21(3):347-52. PubMed PMID: 14578683.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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