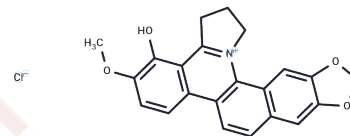


NK314

Chemical Properties

CAS No. : 208237-49-4
 Formula: C₂₂H₂₀ClNO₄
 Molecular Weight: 397.85
 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	NK314 is a novel synthetic benzo[c]phenanthridine alkaloid that shows strong antitumor activity. It inhibited topoisomerase II activity and stabilized topoisomerase II-DNA cleavable complexes. The DNA breaks occurred within 1h after treatment with NK314 even without digestion of topoisomerase II by proteinase K, whereas etoposide required digestion of the enzyme protein in cleavable complex to detect DNA breaks. Pretreatment with topoisomerase II catalytic inhibitors, ICRF-193 and suramin, reduced both cleavable complex-mediated DNA breaks and proteinase K-independent DNA breaks, but protease inhibitors and nuclease inhibitors only decreased the latter.
Targets(IC50)	Others,Topoisomerase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5135 mL	12.5676 mL	25.1351 mL
5 mM	0.5027 mL	2.5135 mL	5.027 mL
10 mM	0.2514 mL	1.2568 mL	2.5135 mL
50 mM	0.0503 mL	0.2514 mL	0.5027 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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