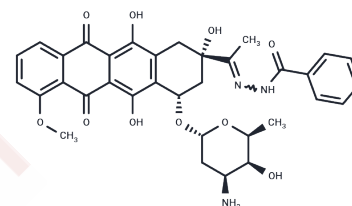


Zorubicin

Chemical Properties

CAS No. :	54083-22-6
Formula:	C ₃₄ H ₃₅ N ₃ O ₁₀
Molecular Weight:	645.66
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	Zorubicin (Rubidazon), a Daunorubicin derivative, inhibits DNA polymerases and interacts with topoisomerase II. It is utilized in the research of acute leukemias and sarcomas [1] [2] [3] [4] [5].
Targets(IC50)	Others,DNA/RNA Synthesis,Topoisomerase
In vitro	H2-Gamendazole (H2-GMZ; 0-100 μ M) was effective in rapidly blocking forskolin-induced, Cl-mediated short-circuit currents in human ADPKD cells, and it significantly inhibited both cAMP- and epidermal growth factor-induced proliferation of ADPKD cells. [1] H2-GMZ (50 μ M)-treated ADPKD cells showed decreased phosphorylated ERK and decreased hyperphosphorylated retinoblastoma levels through western blot analysis.[1] H2-GMZ (50 μ M; 24, 48, 72 h) treatment also decreased ErbB2, Akt, and cyclin-dependent kinase 4 and it decreased levels of the cystic fibrosis transmembrane conductance regulator Cl channel protein.[1]
In vivo	H2-Gamendazole (20 mg/kg; intraperitoneal injections) was effective in slowing postnatal cyst formation and kidney enlargement in the ---Pkd1flox/flox: Pkhd1-Cre mouse model.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5488 mL	7.744 mL	15.488 mL
5 mM	0.3098 mL	1.5488 mL	3.0976 mL
10 mM	0.1549 mL	0.7744 mL	1.5488 mL
50 mM	0.031 mL	0.1549 mL	0.3098 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481