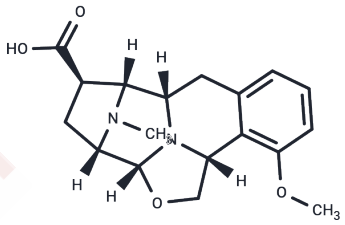
Data Sheet (Cat.No.T210315)

TargetMol

Quinocarcin

Chemical Properties



CAS No. : 84573-33-1

Formula: C18H22N2O4

Molecular Weight: 330.38

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	Quinocarcin (DC-52) is a potent antitumor antibiotic. It inhibits the synthesis of DNA, RNA, and proteins in Bacillus subtilis.
Targets(IC50)	Antibacterial,Antibiotic
In vitro	Quinocarcin inhibits DNA, RNA, and protein synthesis in Bacillus subtilis when used at 100 μg/mM for 0-20 minutes. It interacts with PM2 DNA in a dose-dependent manner at concentrations of 0.1, 1, and 10 mM. The compound exhibits cytotoxicity with LC50 values on LOX-IMVI, SK-MEL-5, UACC-62, UACC-257, and MALME-3M cells being >100, 3.18, 3.83, 0.49, 84.85, and 43.27 μM, respectively.
In vivo	Quinocarcin (40 mg/kg, i.p.) demonstrates antitumor activity in mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0268 mL	15.1341 mL	30.2682 mL
5 mM	0.6054 mL	3.0268 mL	6.0536 mL
10 mM	0.3027 mL	1.5134 mL	3.0268 mL
50 mM	0.0605 mL	0.3027 mL	0.6054 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.

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