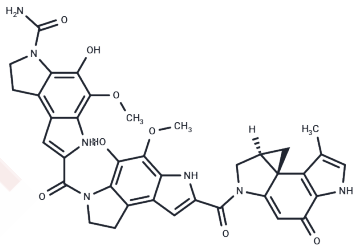
Data Sheet (Cat.No.T40810)

TargetMol

Rachelmycin

Chemical Properties



CAS No. : 69866-21-3

Formula: C37H33N7O8

Molecular Weight: 703.712

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	Rachelmycin (CC-1065; NSC 298223) is a potent naturally antibiotic isolated from Streptomyces zelensis . Rachelmycin binds non-covalently and covalently (N-3 adenine adduct) in the minor groove of B-form DNA. Rachelmycin has exceptionally potent antitumor activity.
Targets(IC50)	Others,Antibiotic,DNA/RNA Synthesis
In vivo	The smallest dose at which delayed death occurs is less for Rachelmycin (CC-1065; NSC 298223; 12.5 mg/kg) in experiments with non-tumored BDF1 mice[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.421 mL	7.1052 mL	14.2104 mL
5 mM	0.2842 mL	1.421 mL	2.8421 mL
10 mM	0.1421 mL	0.7105 mL	1.421 mL
50 mM	0.0284 mL	0.1421 mL	0.2842 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

W C Krueger, et al. Calf Thymus DNA binding/bonding Properties of CC-1065 and Analogs as Related to Their Biological Activities and Toxicities. Chem Biol Interact. 1992 Mar;82(1):31-46.

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