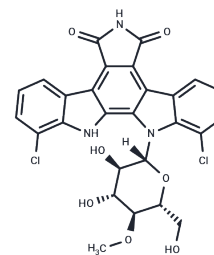


Rebeccamycin

Chemical Properties

CAS No. :	93908-02-2
Formula:	C ₂₇ H ₂₁ Cl ₂ N ₃ O ₇
Molecular Weight:	570.38
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	Rebeccamycin is an antitumor antibiotic+ inhibits DNA topoisomerase I. Rebeccamycin appears to exert its primary antineoplastic effect by poisoning topoisomerase I. It also has a negligible effect on protein kinase C and topoisomerase II.
Targets(IC50)	Antibiotic,ADC Cytotoxin,Topoisomerase
In vitro	Rebeccamycin produced by the actinomycete Saccharotrix aerocolonigenes. It has activity against several human tumor cell lines, including lung adenocarcinoma, colon carcinoma, and nasopharyngeal carcinoma. Rebeccamycin displays antibacterial activity against several Gram-positive bacteria, including Staphylococcus aureus and Streptococcus faecalis [1][3].
In vivo	Rebeccamycin (2-256 mg/kg; i.p.; daily for 9 days) extends survival in B16 melanoma and L1210 leukemia[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7532 mL	8.7661 mL	17.5322 mL
5 mM	0.3506 mL	1.7532 mL	3.5064 mL
10 mM	0.1753 mL	0.8766 mL	1.7532 mL
50 mM	0.0351 mL	0.1753 mL	0.3506 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

Merchant J, et al. Phase I clinical and pharmacokinetic study of NSC 655649, a rebeccamycin analogue, given in both single-dose and multiple-dose formats. Clin Cancer Res. 2002 Jul;8(7):2193-201.

Bush JA, et al. Production and biological activity of rebeccamycin, a novel antitumor agent. J Antibiot (Tokyo). 1987 May;40(5):668-78.

Sánchez C, et al. The biosynthetic gene cluster for the antitumor rebeccamycin: characterization and generation of indolocarbazole derivatives. Chem Biol. 2002 Apr;9(4):519-31.

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