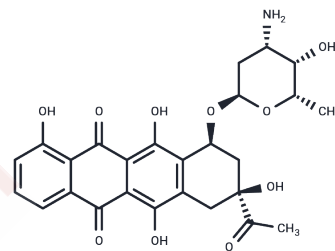


Carubicin

Chemical Properties

CAS No. :	50935-04-1
Formula:	C ₂₆ H ₂₇ N ₁ O ₁₀
Molecular Weight:	513.49
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	Carubicin is an anthracycline antineoplastic antibiotic isolated from the bacterium <i>Actinomadura carminata</i> . Carubicin intercalates into DNA and interacts with topoisomerase II, thereby inhibiting DNA replication and repair and RNA and protein synthesis.
Targets(IC50)	Apoptosis,Others

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9475 mL	9.7373 mL	19.4746 mL
5 mM	0.3895 mL	1.9475 mL	3.8949 mL
10 mM	0.1947 mL	0.9737 mL	1.9475 mL
50 mM	0.0389 mL	0.1947 mL	0.3895 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

Woldemichael GM, Turbyville TJ, Linehan WM, McMahon JB. Carminomycin I is an apoptosis inducer that targets the Golgi complex in clear cell renal carcinoma cells. *Cancer Res.* 2011 Jan 1;71(1):134-42. doi: 10.1158/0008-5472.CAN-10-0757. PubMed PMID: 21199801; PubMed Central PMCID: PMC3074515.

Tevyashova AN, Shtil AA, Olsufyeva EN, Simonova VS, Samusenko AV, Preobrazhenskaya MN. Carminomycin, 14-hydroxycarminomycin and its novel carbohydrate derivatives potently kill human tumor cells and their multidrug resistant variants. *J Antibiot (Tokyo).* 2004 Feb;57(2):143-50. PubMed PMID: 15112963.

Toshchevikova Alu, Pisarev OA. [Optimization of conditions of preparative chromatography of carminomycin on a carboxylic cation exchanger]. *Prikl Biokhim Mikrobiol.* 2002 Mar-Apr;38(2):128-31. Russian. PubMed PMID: 11962206.

Andersson BS, Eksborg S, Vidal RF, Sundberg M, Carlberg M. Anthraquinone-induced cell injury: acute toxicity of carminomycin, epirubicin, idarubicin and mitoxantrone in isolated cardiomyocytes. *Toxicology.* 1999 Jul 1;135(1):11-20. PubMed PMID: 10454220.

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