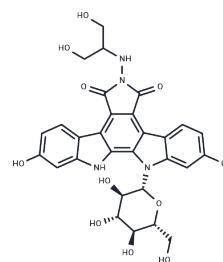


Edotecarin

Chemical Properties

CAS No. :	174402-32-5
Formula:	C ₂₉ H ₂₈ N ₄ O ₁₁
Molecular Weight:	608.55
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	Edotecarin is a potent topoisomerase I inhibitor. It can decrease single-strand DNA cleavage (IC ₅₀ : 50 nM).
Targets(IC ₅₀)	Topoisomerase
In vitro	Edotecarin (0.6 μmol/L) increases the formation of DNA-protein complexes in a time-dependent manner, in the presence of human colon cancer cells labeled with 3Hthymidine [1].
In vivo	Edotecarin significantly delays tumor growth, achieving a delay of 10.45 days at a dosage of 3 mg/kg and extending up to 24.83 days at 100 mg/kg. It enhances survival by 83% in mice with D-456MG glioma intracranial tumors and exhibits potent antimetastatic properties [1]. Additionally, combining edotecarin with irinotecan elevates its in vivo antitumor efficacy beyond that observed with either compound individually [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6433 mL	8.2163 mL	16.4325 mL
5 mM	0.3287 mL	1.6433 mL	3.2865 mL
10 mM	0.1643 mL	0.8216 mL	1.6433 mL
50 mM	0.0329 mL	0.1643 mL	0.3287 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

Saif MW, et al. Edotecarin: a novel topoisomerase I inhibitor. Clin Colorectal Cancer. 2005 May;5(1):27-36.
Ciomei M, et al. Antitumor efficacy of edotecarin as a single agent and in combination with chemotherapy agents in a xenograft model. Clin Cancer Res. 2006 May 1;12(9):2856-61.

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