
Product Data Sheet

Product Name: Edotecarin (J 107088)

Cat. No.: GC33128

Chemical Properties

Cas. No. 174402-32-5

SMILES O=C1N(NC(CO)CO)C(C2=C1C3=C(C4=C2C5=C(N4[C@H]6[C@@H]([C@H]([C@@H]([C@@H](CO)O6)O)O)O)C=C(O)C=C5)NC7=C3C=CC(O)=C7)=O

Formula	C ₂₉ H ₂₈ N ₄ O ₁₁	M.Wt	608.55
---------	--	------	--------

Solubility	Soluble in DMSO	Storage	Store at -20°C
------------	-----------------	---------	----------------

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Edotecarin is a potent inhibitor of topoisomerase I that can induces single-strand DNA cleavage, with IC₅₀ of 50 nM.

In the presence of human colon cancer cells labeled with 3Hthymidine, edotecarin (0.6 μmol/L) increases the formation of DNA-protein complexes in a time-dependent manner[1].

Edotecarin produces an 83% increase in survival in mice bearing intracranial D-456MG glioma and shows a strong antimetastatic effect[1]. Edotecarin results in tumor growth delays ranging from 10.45 days at the lowest dose (3 mg/kg) to 24.83 days at the highest (100 mg/kg). Combination treatment of edotecarin plus irinotecan improves antitumor activity in vivo compared with either agent alone[2].

[1]. Saif MW, et al. Edotecarin: a novel topoisomerase I inhibitor. Clin Colorectal Cancer. 2005 May;5(1):27-36. [2]. Ciomei M, et al. Antitumor efficacy of edotecarin as a single agent and in combination with chemotherapy agents in a xenograft model. Clin Cancer

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Res. 2006 May 1;12(9):2856-61.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA