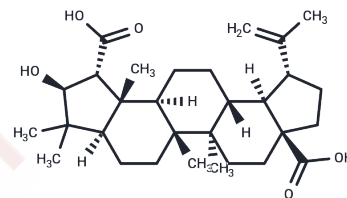


Ceanothic acid

Chemical Properties

CAS No. :	21302-79-4
Formula:	C ₃₀ H ₄₆ O ₅
Molecular Weight:	486.693
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	Ceanothic acid derivatives show cytotoxic effect against OVCAR-3 and HeLa cancer cell lines.
Targets(IC50)	Others
In vitro	Six ceanothane and 1-norceanothane derivatives (1, 2, 8-11) were prepared from Ceanothic acid dibenzyl ester. These ring-A homologues of betulinic acid exhibited cytotoxic effects. Among these, 1-decarboxy-3-oxo-Ceanothic acid (2) was found to be the most cytotoxic against OVCAR-3 and HeLa cancer cell lines, with an IC ₅₀ of 2.8 and 6.6 microg/mL, respectively, and an IC ₅₀ of 11.3 microg/mL against normal cell line FS-5.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0547 mL	10.2735 mL	20.547 mL
5 mM	0.4109 mL	2.0547 mL	4.1094 mL
10 mM	0.2055 mL	1.0273 mL	2.0547 mL
50 mM	0.0411 mL	0.2055 mL	0.4109 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

Preparation and cytotoxic effect of ceanothic acid derivatives. J Nat Prod. 1998 Nov;61(11):1343-7.

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