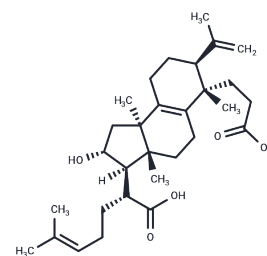


## Poricoic acid G

## Chemical Properties

CAS No. :	415724-84-4
Formula:	C <sub>30</sub> H <sub>46</sub> O <sub>5</sub>
Molecular Weight:	486.68
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	Poricoic acid G shows inhibition of tumor-promoting effects and cytotoxic activity.
In vitro	The structures of two novel 3,4-seco-lanostane-type triterpenes isolated from the sclerotium of <i>Poria cocos</i> were established to be 16 $\alpha$ -hydroxy-3,4-seco-lanosta-4(28),8,24-triene-3,21-dioic acid (1; Poricoic acid G) and 16 $\alpha$ -hydroxy-3,4-seco-24-methyl-lanosta-4(28),8,24(24(1))-triene-3,21-dioic acid (2; poricoic acid H) on the basis of spectroscopic methods. METHODS AND RESULTS: These two, and eight other known compounds isolated from the sclerotium, poricoic acid B (3), poricoic acid A (4), tumulosic acid (5), dehydrotumulosic acid (6), 3-epidehydrotumulosic acid (7), polyporenic acid C (8), 25-hydroxy-3-epidehydrotumulosic acid (9), and dehydroabietic acid methyl ester (10), showed potent inhibitory effects on Epstein-Barr virus early antigen (EBV-EA) activation induced by the tumor promoter 12-O-tetradecanoylphorbol-13-acetate (TPA). Evaluation of the cytotoxicity of compounds 1 and 4 against human cancer cell lines revealed that 1 was significantly cytotoxic to leukemia HL-60 cells [GI <sub>50</sub> (concentration that yields 50% growth) value 39.3 nM], although it showed only moderate cytotoxicity to the other cells. Compound 4 exhibited moderate cytotoxicity to all of the cancer cell lines tested.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0547 mL	10.2737 mL	20.5474 mL
5 mM	0.4109 mL	2.0547 mL	4.1095 mL
10 mM	0.2055 mL	1.0274 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

Inhibition of tumor-promoting effects by poricoic acids G and H and other lanostane-type triterpenes and cytotoxic activity of poricoic acids A and G from *Poria cocos*. *J Nat Prod.* 2002 Apr;65(4):462-5.

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