

## Polyporenic acid C

## Chemical Properties

CAS No. : 465-18-9

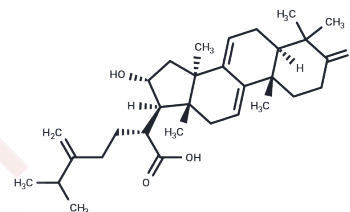
Formula: C<sub>31</sub>H<sub>46</sub>O<sub>4</sub>

Molecular Weight: 482.69

Keep away from direct sunlight

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	Polyporenic acid C shows inhibitory activity against human collagenase.
Targets(IC50)	Apoptosis,Caspase,PARP,PI3K
In vitro	Polyporenic acid C (PPAC) significantly reduced cell proliferation via induction of apoptosis as evidenced by sub-G1 analysis, annexin V-FITC staining, and increase in cleavage of procaspase-8, -3, and poly(ADP-ribose)-polymerase (PARP). However, unlike our previously reported lanostane-type triterpenoid, pachymic acid, treatment of cells with PPAC was not accompanied by disruption of mitochondrial membrane potential and increase in cleavage of procaspase-9. Further, PPC-induced apoptosis was inhibited by caspase-8 and pan-caspase inhibitors but not by a caspase-9 inhibitor.

## Solubility Information

Solubility	DMSO: 60 mg/mL (124.3 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.0717 mL	10.3586 mL	20.7172 mL
5 mM	0.4143 mL	2.0717 mL	4.1434 mL
10 mM	0.2072 mL	1.0359 mL	2.0717 mL
50 mM	0.0414 mL	0.2072 mL	0.4143 mL

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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

Polyporenic acid C induces caspase-8-mediated apoptosis in human lung cancer A549 cells. *Mol Carcinog.* 2009 Jun;48(6):498-507.

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