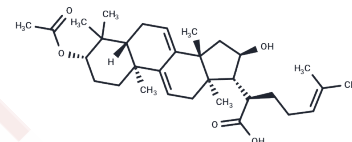


3-O-Acetyl-16 $\alpha$ -hydroxydehydrotrametenolic acid

## Chemical Properties

CAS No. : 168293-14-9  
 Formula: C<sub>32</sub>H<sub>48</sub>O<sub>5</sub>  
 Molecular Weight: 512.72  
 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	3-O-Acetyl-16 $\alpha$ -hydroxydehydrotrametenolic acid (3-O-Acetyl-16 alpha-hydroxydehydrotrametenolic acid) exhibits anti-inflammatory activity by inhibiting NO production and iNOS expression in LPS-stimulated Raw264.7 cells.
Targets(IC50)	NOS,NO Synthase,Prostaglandin Receptor
In vitro	Based on bioassay-guided fractionation using lipopolysaccharide (LPS)-stimulated Raw264.7 cells, chemical investigation of the EtOH extract of the sclerotia of <i>P. cocos</i> resulted in the isolation and identification of eight compounds including six triterpenoids, namely poricoic acid (1), 3-O-Acetyl-16 alpha-hydroxydehydrotrametenolic acid(2), polyporenic acid C (3), 3 $\beta$ -hydroxylanosta-7,9(11), 24-trien-21-oic acid (4), trametenolic acid (5), and dehydroeburicoic acid (6), as well as (-)-pinoresinol (7) and protocatechualdehyde (8). The structures of the isolated compounds were determined by spectroscopic analysis, including <sup>1</sup> H and <sup>13</sup> C NMR spectra, and LC/MS analysis. The anti-inflammatory activities of the isolates were evaluated by estimating their effect on the production of nitric oxide (NO) and prostaglandin E <sub>2</sub> (PGE <sub>2</sub> ) in LPS-stimulated Raw264.7 as well as on the expression of inducible nitric oxide synthase (iNOS) and cyclooxygenase-2 (COX-2). Compounds 1-5 inhibited NO production and iNOS expression in LPS-stimulated Raw264.7 cells. Among them, compound 1 exerted the highest anti-inflammatory activity and reduced PGE <sub>2</sub> levels via downregulation of COX-2 protein expression.

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.9504 mL	9.7519 mL	19.5038 mL
5 mM	0.3901 mL	1.9504 mL	3.9008 mL
10 mM	0.195 mL	0.9752 mL	1.9504 mL
50 mM	0.039 mL	0.195 mL	0.3901 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

Bioactivity-guided isolation of anti-inflammatory triterpenoids from the sclerotia of *Poria cocos* using LPS-stimulated Raw264.7 cells. *Bioorg Chem.* 2017 Feb;70:94-99.

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