

## Lucidenic acid C

**Chemical Properties**

CAS No.:	95311-96-9
Formula:	C <sub>27</sub> H <sub>40</sub> O <sub>7</sub>
Molecular Weight:	476.6
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Lucidenic acid C has anti-invasive effect, it shows significant inhibitory effects on PMA-induced MMP-9 activity and invasion of HepG(2 )cells.
Targets(IC <sub>50</sub> )	MMP: None
In vitro	Triterpenoid components in the ethanol extract of <i>G. lucidum</i> (YK-02) were separated by means of a semi-preparative RP HPLC. Four major peaks were separated and crystallized from triterpenoids fraction, and were identified as lucidenic acid A, lucidenic acid B, Lucidenic acid C, and lucidenic acid N according to their spectroscopic values of (1)H NMR and MS. Treatment of the lucidenic acids (50 microM) in the presence of 200 nM phorbol 12-myristate 13-acetate (PMA) after 24 h of incubation all resulted in significant inhibitory effects on PMA-induced MMP-9 activity and invasion of HepG(2 )cells.

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.098 mL	10.491 mL	20.982 mL
5 mM	0.42 mL	2.098 mL	4.196 mL
10 mM	0.21 mL	1.049 mL	2.098 mL
50 mM	0.042 mL	0.21 mL	0.42 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. The anti-invasive effect of lucidenic acids isolated from a new *Ganoderma lucidum* strain. *Mol Nutr Food Res*. 2007 Dec;51(12):1472-7.

Inhibitors · Natural Compounds · Compound Libraries

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