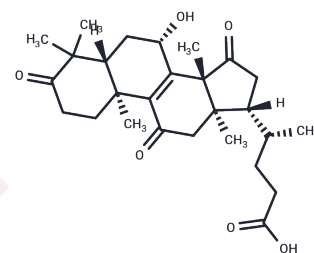


Lucideric acid A

Chemical Properties

CAS No. :	95311-94-7
Formula:	C ₂₇ H ₃₈ O ₆
Molecular Weight:	458.59
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	Lucideric acid A (Lucidenic acid A) is a modulator of JNK and p38 and enhances LPS-induced immune responses in monocytic THP-1 cells possibly via the modulation of p38 and JNK/MAPKs activation.
Targets(IC50)	MMP,JNK,p38 MAPK
In vitro	Here, we showed that triterpenes-rich extract of antlered form of <i>G. lucidum</i> (<i>G. lucidum</i> AF) induces TNF α production in monocytic THP-1 cells. Furthermore, the extract also synergized with lipopolysaccharide (LPS) to induce TNF α production in THP-1 cells, suggesting an immunostimulatory role of triterpenes-rich extract of <i>G. lucidum</i> AF. Notably, the extract enhanced LPS-induced phosphorylation of p38 mitogen-activated protein kinase (MAPK), while it suppressed LPS-induced phosphorylation of c-Jun N-terminal kinase (JNK) MAPK. p38 Inhibitor suppressed TNF α production, while JNK inhibitor enhanced TNF α production, implying that synergistic effect of the extract may work by modulating p38 and JNK MAPKs. Moreover, we found that the triterpenes-rich extract of <i>G. lucidum</i> AF contains high amounts of lucidenic acids. Lucidenic acid-A, -F and -D(2), which seem to dominantly exist in the extract, were purified from the triterpenes-rich extract. We also identified Lucidenic acid-A and -F as modulators of JNK and p38, respectively[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (130.84 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1806 mL	10.903 mL	21.806 mL
5 mM	0.4361 mL	2.1806 mL	4.3612 mL
10 mM	0.2181 mL	1.0903 mL	2.1806 mL
50 mM	0.0436 mL	0.2181 mL	0.4361 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

Lucidenic acids-rich extract from antlered form of *Ganoderma lucidum* enhances TNF α induction in THP-1 monocytic cells possibly via its modulation of MAP kinases p38 and JNK. *Biochem Biophys Res Commun.* 2011 Apr 29;408(1):18-24.

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

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