
Product Data Sheet

Product Name: Ganoderenic acid A

Cat. No.: GC36112

Chemical Properties

Cas. No. 100665-40-5

SMILES CC12C3=C(C(CC1(C/C(C)=C\C(CC(C)C(O)=O)=O)CC2O)C)=O)C4(C(C(C)(C(CC4)=O)C)CC3O)CFormula C₃₀H₄₂O₇

M.Wt

514.65

Solubility Soluble in DMSO

Storage

Store at -20°C

General tips

For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Ganoderenic acid A is a triterpenoid originally isolated from *G. lucidum* that has enzyme inhibitory activities.^{1,2,3} It is an inhibitor of β -glucuronidase (IC₅₀ = 0.12 mg/ml in rat liver microsomes).² Ganoderenic acid A (100 mg/kg) reduces increases in serum aspartate aminotransferase (AST), alanine aminotransferase (ALT), and lactate dehydrogenase (LDH) in a rat model of liver injury induced by carbon tetrachloride (CCl₄). It also inhibits aldose reductase by 54.2% when used at a concentration of 100 ? g/ml.³

1. Komoda, Y., Nakamura, H., Ishihara, S., et al. Structures of new terpenoid constituents of *Ganoderma lucidum* (Fr.) KARST (Polyporaceae) *Chem. Pharm. Bull.* 33(11)4829-4835(1985)
 2. Kim, D.-H., Shim, S.-B., Kim, N.-J., et al. β -Glucuronidase-inhibitory activity and hepatoprotective effect of *Ganoderma lucidum* *Biol. Pharm. Bull.* 22(2)162-164(1999)
 3. Fatmawati, S., Shimizu, K., and Kondo, R. Inhibition of aldose reductase in vitro by constituents of *Ganoderma lucidum* *Planta Med.* 76(15)1691-1693(2010)

Caution: Product has not been fully validated for medical applications. For research use only.

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