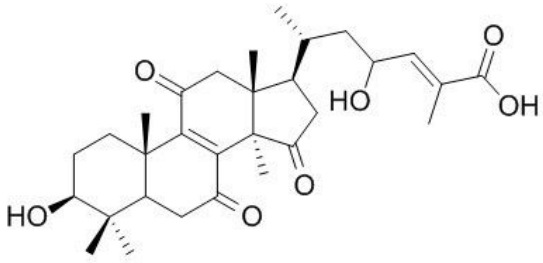
Natural Products

ChemFaces

Ganoderic acid Z Datasheet

4th Edition (Revised in July, 2016)

[Product Information]



Name: Ganoderic acid Z

Catalog No.: CFN90295

Cas No.: 294674-09-2

Purity: > 98%

M.F: $C_{30}H_{42}O_7$

M.W: 514.66

Physical Description: White cryst.

Synonyms: 3,23-Dihydroxy-7,11,15-trioxolanosta-8,24-dien-26-oic acid.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The fruiting bodys of *Ganoderma lucidum.*

[Biological Activity or Inhibitors]

Ganoderic acid zeta , isolated from the spores, has cytotoxicity in vitro against Meth-A and LLC cell lines.[1]

The binding affinities of ganoderic acid DM and Z ($\triangle$Gbind, −16.83 and−10.99 kcal mol^{-1}) are comparable to that of current commercial drug oseltamivir (−23.62 kcal mol^{-1});

Ganoderic acid DM is a potential source of anti-influenza ingredient, with novel binding pattern and advantage over oseltamivir, it has steric hindrance on the 150 cavity of N1 protein, and exerts activities across the H274Y and N294S mutations, is the attractive candidates of novel neuraminidase (NA) inhibitors.[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method] [3]

Mobile phase: Acetonitrile- 0.04% Formic acid H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 15 ℃;

The wave length of determination: 254 nm.

[Storage]

2-8℃, Protected from air and light, refrigerate or freeze.

[References]

[1] Min B S, Gao J J, Nakamura N, *et al. Cheminform, 2000, 31(50):1026-33.*

[2] Yang Z, Fei W, Yuan X, *et al. J. Mol .Graph. Model, 2016, 65:27-34.*

[3] Li B M, Gu H F, Li Y, *et al. China Journal of Chinese Materia Medica, 2012, 37(23):3599-603.*

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