

Cycloart-23-ene-3,25-diol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Cycloart-23-ene-3,25-diol

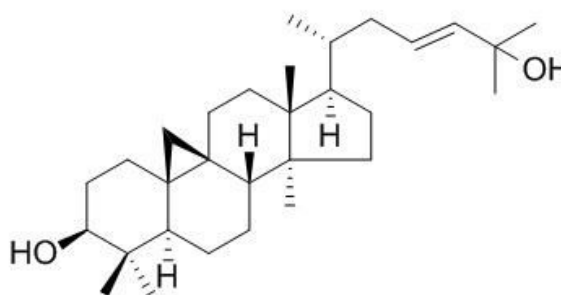
Catalog No.: CFN90498

Cas No.: 14599-48-5

Purity: >=96%

M.F: C₃₀H₅₀O₂

M.W: 442.72



Physical Description: Cryst.

Synonyms: 5 α -Cycloart-23-ene-3 β ,25-diol; 9,19-Cyclo-5 α -lanost-23-ene-3 β ,25-diol;

9 β ,19-Cyclolanost-23-ene-3 β ,25-diol; Cycloart-23-ene-3 β ,25-diol.

[Intended Use]

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

[Source]

The herbs of *Pongamia pinnata*.

[Biological Activity or Inhibitors]

Cycloart-23-ene-3,25-diol has anti-inflammatory activity, it shows inhibitory activity against COX-2 (80%) at a concentration of 100 uM (IC₅₀, 40 uM), it shows weak activity against COX-1 (56%) with an IC₅₀ value of 97 uM; it also has a weak inhibitory effect against acetylcholinesterase (53%) when tested at a concentration of 0.4 mM.^[1]

Cycloart-23-ene-3 β , 25-diol has antidiabetic activity, the mechanism appears to be due to increased pancreatic insulin secretion and antioxidant activity.^[2]

Cycloart-23-ene-3 β , 25-diol exhibits protection of vital organs by minimizing toxic effects and related abnormalities of diabetic conditions in streptozotocin- nicotinamide induced diabetic mice.^[3]

Cycloart 23-ene-3 β , 25 diol shows dose dependent antioxidant activity, it shows more DPPH radical scavenging, reducing power, superoxide scavenging, hydroxyl radical scavenging, metal chelating scavenging, hydrogen peroxide radical scavenging and nitric oxide radical scavenging activity than β -tocopherol and it exhibits broad-spectrum activity against bacteria and strong activity against yeast type of fungi.^[4]

Cycloartane-3,24,25- triol has inhibitory activity against MRCK $\hat{1}$ ± kinase, and MRCK $\hat{1}$ ±/ $\hat{1}$ ² kinases has been identified as an important kinase implicated in cancer onset and progression and as such a potential drug target, suggests that cycloartane-3,24,25- triol may have anticancer activity.^[5]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

- [1] Eldeen I M S, Heerden F R V, Staden J V. *South African Journal of Botany*, 2007, 73(3):366-71.
- [2] Badole SL, Bodhankar SL. *Eur. J. Pharmacol.*, 2010 Apr 25;632(1-3):103-9.
- [3] Badole S L, Bodhankar S L, Raut C G. *Asian Pac. J. Trop. Biomed.*, 2011, 1(2):S186-90.
- [4] Sachin L Badole, Anand A Zanwar, Abhijeet N Khopade, *et al.* *Asian Pac. J. Trop. Med.*, 2011 Nov;4(11):910-6.
- [5] Lowe H I C, Toyang N J, Watson C T, *et al.* *Br. J. Med. Med. Res.*, 2014, 4(9):1802-11.

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