

## 13(18)-Oleanen-3-one Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** 13(18)-Oleanen-3-one

**Catalog No.:** CFN98023

**Cas No.:** 20248-08-2

**Purity:** > 95%

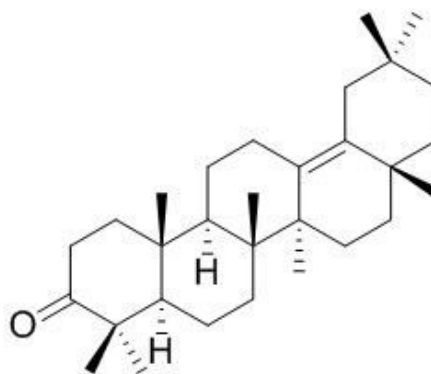
**M.F:** C<sub>30</sub>H<sub>48</sub>O

**M.W:** 424.7

**Physical Description:** Cryst.

**Synonyms:** δ-Amyrone; Lupenone II; δ-Amyrenone;

(6aR,6bS,8aR,14aR,14bR)-4,4,6a,6b,8a,11,11,14b-octamethyl-2,4a,5,6,7,8,9,10,12,13,14,14a-dodecahydro-1H-picen-3-one.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Euphorbia supina*.

## **[ Biological Activity or Inhibitors ]**

δ-Amyrone(13(18)-Oleanen-3-one), a specific inhibitor of cyclooxygenase-2, possesses anti-inflammatory effects, which may be relevant to the regulation of COX-2.<sup>[1]</sup>

δ-Amyrone has protective activity on LPS-induced endotoxic shock, which is attributed to reducing NO production and mediating the pro-inflammatory cytokines, inhibited NF-κB expression.<sup>[2]</sup>

δ-Amyrone exerts its protective effect on experimental gastric ulcer by inhibiting NF-κB signaling pathways, which subsequently reduces overproduction of the inducible enzymes iNOS and suppresses the release of the inflammatory factors TNF-α, IL-6 and NO.<sup>[3]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[4]</sup>**

HPLC-ELSD:

Mobile phase: Dichloromethane-Methanol=99:1

Flow rate: 0.5 ml/min;

Column temperature: Room Temperature;

Drift tube temperature: 100 °C;

Flow rate of gas : 3.0 L/min;

Carrier gas: N<sub>2</sub>.

## **[ Storage ]**

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

## **[ References ]**

[1] Niu X, Yao H, Li W, *et al. Int. Immunopharmacol.*, 2014, 21(1):112-8.

[2] Niu X, Yao H, Li W, *et al. Chem. Biol. Interact.*, 2015, 40:354-61.

[3] Li W, Yao H, Niu X, *et al. Immunobiology*, 2014, 220(6):798-806.

[4]Cao S P, Liu L F, Wang Q. *China Journal of Chinese Materia Medica*, 2006, 31(1):41-2, 50.

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