

## beta-Amyrone Datasheet

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

### [ Product Information ]

**Name:** beta-Amyrone

**Catalog No.:** CFN97099

**Cas No.:** 638-97-1

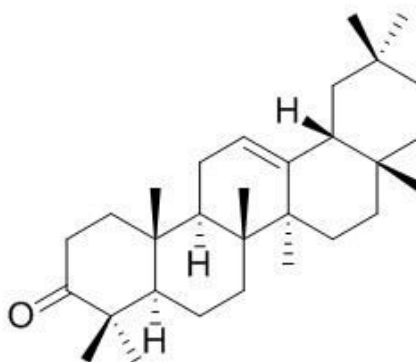
**Purity:** > 95%

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

**M.W:** 424.7

**Physical Description:** Powder

**Synonyms:** (5xi,18alpha)-olean-12-en-3-one; (6aR,6bS,8aR,12aS,14aR,14bR)-4,4,6a,6b,8a,11,11,14b-octamethyl-2,4a,5,6,7,8,9,10,12,12a,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 leaves of *Cyclocarya paliurus*.

### [ Biological Activity or Inhibitors ]

beta-Amyrone has antifungal activity.<sup>[1]</sup>

beta-Amyrone exhibits anti- $\alpha$ -glucosidase inhibitory activity and moderate anti-acetylcholinesterase (AChE) activity.<sup>[2]</sup>

beta-Amyrone shows a moderate activity against Chikungunya virus replication ( $EC_{50}$  =86  $\mu$ M).<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: 30 °C;

Drift tube temperature: 100 °C;

Flow rate of gas : 3.0 L/min.

## **[ Storage ]**

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

## **[ References ]**

[1] Elfadil H, Fahal A, Kloezen W, *et al. Plos Negl. Trop. Dis.*, 2015, 9(3):e0003488.

[2] Ata A, Tan D S, Matochko W L, *et al. Phytochem. Lett.*, 2011, 4(1):34-7.

[3] Bourjot M, Leyssen P, Eydoux C, *et al. Fitoterapia*, 2012, 83(6):1076-80.

[4] Cao S P, Liu L F, Wang Q. *Zhongguo Zhong yao za zhi* , 2006, 31(31):41-2, 50.

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