

## alpha-Amyrin Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** alpha-Amyrin

**Catalog No.:** CFN92377

**Cas No.:** 638-95-9

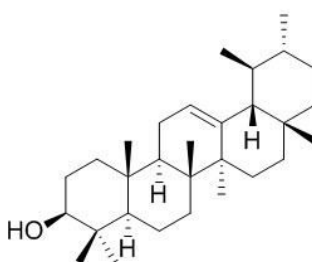
**Purity:** > 95%

**M.F:** C<sub>30</sub>H<sub>50</sub>O

**M.W:** 426.72

**Physical Description:** Powder

**Synonyms:** 4,4,6a,6b,8a,11,12,14b-octamethyl-1,2,3,4,4a,5,6,6a,6b,7,8,8a; Urs-12-en-3-ol; Urs-12-en-3 β -ol.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Artemisia vulgaris*.

### [ Biological Activity or Inhibitors ]

The mixture of triterpene alpha-amyrin and beta-amyrin can produce consistent peripheral, spinal, and supraspinal antinociception in rodents, especially when assessed in inflammatory models of pain, the mechanisms seem to involve the inhibition of protein kinase A- and protein kinase C-sensitive pathways.<sup>[1]</sup>

alpha-Amyrin can dose-dependently prevent the increase of the proinflammatory cytokine interleukin-1beta levels in response to topical application of 12-O-tetradecanoylphorbol-acetate (TPA), the efficacy of alpha-amyrin is very similar to that produced by dexamethasone; thus, alpha-amyrin is a good candidate to develop a skin permeable antiinflammatory drug.<sup>[2]</sup>

alpha-Amyrin can attenuate high-fructose diet (HFD)-induced metabolic syndrome in rats, it can prevent a significant increase in systolic blood pressure, plasma glucose, total cholesterol, and plasma triglycerides and a significant decrease in HDL-C, preserve the hepatic mRNA and protein levels of peroxisome proliferator-activated receptor alpha (PPAR- $\alpha$ ).<sup>[3]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Acetonitrile- H<sub>2</sub>O=59:41 ;

Flow rate: 1.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 206 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Otuki M F, Ferreira J, Lima F V, *et al.* *J. Pharmacol. Exp. Ther.*, 2005, 313(1):310-8.

[2] Otuki M F, Vieira-Lima F, Malheiros A, *et al.* *Eur. J. Pharmacol.*, 2005, 507(507):253-9.

[3] Prabhakar P, Reeta K H, Maulik S K, *et al.* *Appl. Physiol. Nutr. Me.*, 2016-0088.

[4] Katari N K, Venkatanarayana M, Deodhar P, *et al.* *Der Pharma Chemica*, 2013, 5(6):  
234-40.

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