

## beta-Amyrin Datasheet

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

### [ Product Information ]

**Name:** beta-Amyrin

**Catalog No.:** CFN98935

**Cas No.:** 559-70-6

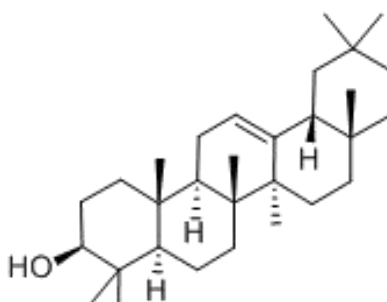
**Purity:** > 95%

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

**M.W:** 426.72

**Physical Description:** Powder

**Synonyms:** (3beta)-olean-12-en-3-ol; 12-oleanen-3-beta-ol; 12-oleanin-3-beta-ol; olean-12-en-3beta-ol; olean-12-en-3b-ol.



### [ Intended Use ]

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

### [ Source ]

The stem bark of *Alstonia boonei*.

### [ Biological Activity or Inhibitors ]

alpha- and beta-Amyrin, a triterpene mixture isolated from the trunk wood resin of folk medicinal plant, they have hepatoprotective potential against toxic liver injury, the diminution in oxidative stress and toxic metabolite formation as likely mechanisms involved in its hepatoprotection. <sup>[1]</sup>

alpha- and beta-Amyrin have antinociceptive properties in inflammatory models of pain, the mechanisms involved in their action are not completely understood but seem to involve the inhibition of protein kinase A- and protein kinase C-sensitive pathways.<sup>[2]</sup>

alpha- and beta-Amyrin have anti-inflammatory potential, they retard acute inflammation in rat model of periodontitis and warrant further study on its efficacy to prevent chronic periodontitis-associated bone loss. <sup>[3]</sup>

alpha- and beta-Amyrin mixture has gastro-protective activity, the mechanism involves at least in part the activation of capsaicin-sensitive primary afferent neurons.<sup>[4]</sup>

alpha- and beta-Amyrin mixture has sedative and anxiolytic effects, the mechanism may involve an action on benzodiazepine-type receptors, and also an antidepressant effect where noradrenergic mechanisms will probably play a role.<sup>[5]</sup>

beta-Amyrin has antiviral activity.<sup>[6]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[7]</sup>**

Mobile phase: Acetonitrile -H<sub>2</sub>O=95:5 ;

Flow rate: 0.7 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

## **[ Storage ]**

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

## **[ References ]**

- [1] Oliveira FA, Chaves MH, Almeida FR, *et al. J. Ethnopharmacol.*, 2005, 98(1–2):103-8.
- [2] Otuki M F, Ferreira J, Lima F V, *et al. J. Pharmacol. Exp. Ther.*, 2005, 313(1):310-8.
- [3] Holanda Pinto S A, Pinto L M, Cunha G M, *et al. Inflammopharmacology*, 2008, 16(1):48-52.
- [4] Oliveira F A, Vieira-Júnior G M, Chaves M H, *et al. Planta Med.*, 2004, 70(8):780-2.
- [5] Aragão G F, Carneiro L M V, Junior A P F, *et al. Pharmacol. Biochem. Be.*, 2006, 85(4):827-34.
- [6] Rao G S, Sinsheimer J E, Cochran K W. *J. Pharm. Sci-US.*, 1974, 63(3):471-3.
- [7] Adhyapak S S, Dighe V. *Int. J. Pharm. Sci. Rev. Res.*, 2014, 24(1):120-6.

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