

## Taraxasterol Datasheet

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

### [ Product Information ]

**Name:** Taraxasterol

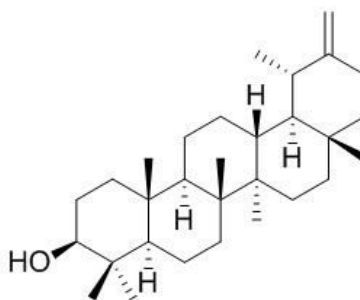
**Catalog No.:** CFN99074

**Cas No.:** 1059-14-9

**Purity:** > 98%

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

**M.W:** 426.7



**Physical Description:** Powder

**Synonyms:** Urs-20(30)-en-3-ol, (3.β.,18.α.,19.α.)-;Anthesterin;

(18 α ,19 α )-5 α -Urs-20(30)-en-3 β -ol;Taraxasta-20(30)-ene-3 β -ol; α -Lactuceryl.

### [ Intended Use ]

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

### [ Source ]

The herbs of *Taraxacum officinale*.

### [ Biological Activity or Inhibitors ]

Taraxasterol has anti-inflammatory effect by blocking NF- $\kappa$ B pathway, it can inhibit NO, PGE(2), TNF- $\alpha$ , IL-1 $\beta$  and IL-6 production in LPS-induced RAW 264.7 macrophages in a dose-dependent manner, and prevent the LPS-induced NF- $\kappa$ B translocation from cytoplasm into nuclear.<sup>[1]</sup>

Taraxasterol has protective effect on allergic asthma induced by ovalbumin (OVA) in mice.<sup>[2]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: [Acetonitrile-0.25% triethylamine H<sub>2</sub>O=90:10] -Ethyl acetate with 0.25% triethylamine ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 450 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Zhang X, Xiong H, Liu L. *J. Ethnopharmacol.*, 2012, 141(1):206-11.

[2] Liu J, Xiong H, Cheng Y, *et al. J. Ethnopharmacol.*, 2013, 148(3):787- 93.

[3] Pintea A. *Acta Biologica Szegediensis*, 2003, 47(1):37-40.

## **[ Contact ]**

**Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,

**Email:** info@chemfaces.com

**Tel:** +86-27-84237783

**Fax:** +86-27-84254680

Wuhan, Hubei 430056,  
China

**Web:** [www.chemfaces.com](http://www.chemfaces.com)

**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)