

## Pregnenolone Datasheet

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

### [ Product Information ]

**Name:** Pregnenolone

**Catalog No.:** CFN99497

**Cas No.:** 145-13-1

**Purity:** > 98%

**M.F:** C<sub>21</sub>H<sub>32</sub>O<sub>2</sub>

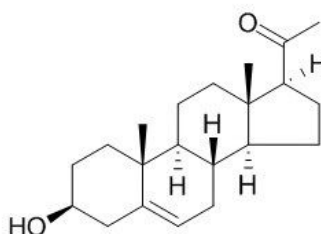
**M.W:** 316.5

**Physical Description:** Cryst.

**Synonyms:** 3-beta-Hydroxy-5-pregnen-20-one; 5-Pregnen-3beta-ol-20-one;

3-Hydroxypregn-5-en-20-one;(3beta,8xi,9xi,14xi)-3-hydroxypregn-5-en-20-one;

(3beta,9xi,14xi)-3-hydroxypregn-5-en-20-one.



### [ Intended Use ]

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

### [ Source ]

The roots of *Dictamnus dasycarpus*.

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

Pregnenolone , a common precursor of many steroids, is present in the blood of normal adult men at concentrations of 1-3 nM, it can stimulate LNCaP prostate cancer cell growth via the mutated androgen receptor.<sup>[1]</sup>

Pregnenolone has memory-enhancing effects.<sup>[2]</sup>

Pregnenolone and dehydroepiandrosterone as precursors of native 7-hydroxylated metabolites which increase the immune response in mice. <sup>[3]</sup>

Pregnenolone is a novel therapeutic candidate in schizophrenia.<sup>[4]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Methanol -H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Grigoryev D N, Long B J, Njar V C, *et al. J. Steroid Biochem.* , 2000, 75(75):1-10.

[2] Flood J F, Morley J E, Roberts E. *P. Natl. Acad. Sci.*, 1992, 89(5):1567-71.

[3] Morfin R, Courchay G. *J. Steroid Biochem.*, 1994, 50(1-2):91-100.

[4] Marx C E, Bradford D W, Hamer R M, *et al. Neuroscience*, 2011, 191(191):78-90.

[5] Kessler M J. *Steroids*, 1982, 39(1):21-32.

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