[**Product Information**]

**Name:** alpha-Spinasterol  
**Catalog No.:** CFN98748  
**Cas No.:** 481-18-5  
**Purity:** > 95%  
**M.F:** C_{29}H_{48}O  
**M.W:** 412.7  
**Physical Description:** Powder  
**Synonyms:** (3\beta,5\alpha,22E)-Stigmasta-7,22-dien-3-ol; Bessisterol; Hitodesterol.

[**Intended Use**]

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

[**Source**]

The roots of *Bupleurum chinense DC.*

[**Biological Activity or Inhibitors**]
alpha-Spinasterol is a potent inhibitor (IC(50)= 3.9 x 10\(^{-12}\) g/mL, 9.5 pmol/L) of glomerular mesangial cell proliferation caused by high-ambient glucose (5.6 mM vs. 25 mM), and its inhibitory potency is about 1,000 times higher than that of simvastatin, an HMG-CoA reductase inhibitor used as a positive control; it also significantly reduces the increases of serum triglycerides, renal weight and urinary protein excretion in streptozotocin-induced diabetic mice, suggests that alpha-spinasterol has a significant therapeutic potential to modulate the development and/or progression of diabetic nephropathy.[1]

alpha-Spinasterol has anti-inflammatory activity.[2]

alpha-Spinasterol exhibits significant and dose-related antinociceptive effects against acetic acid-induced visceral pain.[3]

alpha-Spinasterol, a TRPV1 receptor antagonist, elevates the seizure threshold in three acute seizure tests in mice.[4]

[**Solvent**]

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

[**HPLC Method**][5]

TLC:
Expand agents: Petroleum ether - Ethyl acetate - Methanol =8:2:1;
The wave length of determination: 400 nm.

[**Storage**]

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

[**References**]


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