Product Name: α-Spinasterol  
CAS Number: 481-18-5  
IUPAC Name: (3β,5α,22E)-Stigmasta-7,22-dien-3-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{29}\text{H}_{48}\text{O} \)
Batch Molecular Weight: 412.69
Physical Appearance: White solid
Solubility: ethanol to 10 mM with gentle warming
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 95.2% purity

\(^1\text{H NMR:} \) Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
**Product Name:** α-Spinasterol  
**CAS Number:** 481-18-5  
**IUPAC Name:** \((3β,5α,22E)-\text{Stigmasta-7,22-dien-3-ol}\)

**Description:**  
TRPV1 antagonist \((IC_{50} = 1.4 \, \mu M)\). Reduces capsaicin-mediated Ca²⁺ influx in vitro; displays antinociceptive and antiedematogenic effects in multiple mouse models of pain. Brain penetrant and orally bioavailable.

**Physical and Chemical Properties:**  
**Batch Molecular Formula:** \(C_{29}H_{48}O\)  
**Batch Molecular Weight:** 412.69  
**Physical Appearance:** White solid

**Minimum Purity:** >95%

**Batch Molecular Structure:**

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**Storage:** Store at -20°C. This product is packaged under an inert atmosphere.  
**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**
ethanol to 10 mM with gentle warming

**Stability and Solubility Advice:**
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).  
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:  
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.  
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**