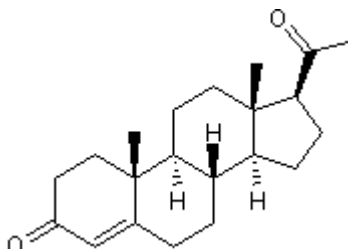


**Product Name:** Progesterone  
**CAS Number:** 57-83-0  
**IUPAC Name:** Pregn-4-ene-3,20-dione

**Catalog No.:** 2835 **Batch No.:** 2

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>30</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 314.46  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +181.7 (Concentration = 2, Solvent = Dioxane)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	80.21	9.62	
Found	80.29	9.95	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**Product Name:** Progesterone  
CAS Number: 57-83-0  
IUPAC Name: Pregn-4-ene-3,20-dione

**Catalog No.:** 2835 **Batch No.:** 2

**Description:**

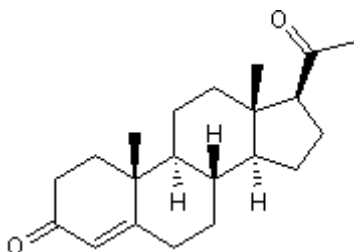
Endogenous progesterone receptor (PR) agonist ( $EC_{50} = 0.5$  nM).

**Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{21}H_{30}O_2$   
Batch Molecular Weight: 314.46  
Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

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:**

DMSO to 100 mM  
ethanol to 100 mM

**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:**

**Jerry** (2007) Roles of estrogen and progesterone in breast cancer prevention. *Breast Cancer Res.* **9** 102. PMID: 17381827.

**Dong et al** (2004) Characterization of a new class of selective nonsteroidal progesterone receptor agonist. *Steroids* **69** 201. PMID: 15072922.

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