

Certificate of Analysis

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Product Name: Levonorgestrel

CAS Number: 797-63-7

IUPAC Name: (17 α)-13-Ethyl-17-hydroxy-18,19-dinorpregn-4-en-yn-3-one

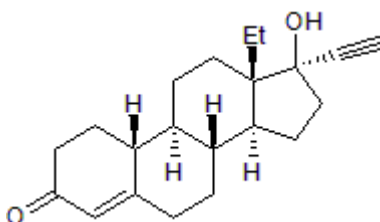
Catalog No.: 4833

Batch No.: 1

EC Number: 212-349-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₈O₂
Batch Molecular Weight: 312.45
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -30 (Concentration = 1, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	80.73	9.03	
Found	80.88	9.15	

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

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Description:

Synthetic progesterone analog; binds to the progesterone receptor (relative binding affinities are < 0.02, 7.5, 17, 58 and 323 % for estrogen receptors, glucocorticoid receptors, mineralocorticoid receptors, androgen receptors and progesterone receptors respectively).

Physical and Chemical Properties:

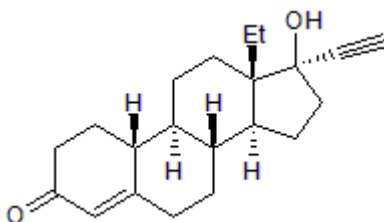
Batch Molecular Formula: C₂₁H₂₈O₂

Batch Molecular Weight: 312.45

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Sitruk-Ware *et al* (2006) New progestagens for contraceptive use. *Hum.Reprod.Update* **12** 169. PMID: 16291771.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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.

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