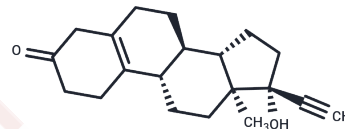


## Norethynodrel

## Chemical Properties

CAS No. :	68-23-5
Formula:	C <sub>20</sub> H <sub>26</sub> O <sub>2</sub>
Molecular Weight:	298.42
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Norethynodrel (Lynestrol) is a synthetic progestational hormone with actions and uses similar to those of PROGESTERONE. It has been used in the treatment of functional uterine bleeding and endometriosis. As a contraceptive, it has usually been administered in combination with MESTRANOL.
Targets(IC50)	Estrogen/progestogen Receptor
Kinase Assay	Assay of glutamate released: Hippocampal slices (400 $\mu$ M) are prepared from the guinea pig brain using standard techniques. A slice is fixed on a pair of silver wire electrodes (10 Hz, 5 V, 0.1 ms in duration) at 1-minutes intervals for 10 minutes and submerged in 1 mL standard artificial cerebrospinal fluid (ACSF) (in mM: 125 mM NaCl, 5 mM KCl, 1.24 mM KH <sub>2</sub> PO <sub>4</sub> , 1.3 mM MgSO <sub>4</sub> , 2 mM CaCl <sub>2</sub> , 26 mM NaHCO <sub>3</sub> , and 10 mM glucose) oxygenated with 95% O <sub>2</sub> and 5% CO <sub>2</sub> at 36 °C in the presence and absence of tetrodotoxin (TTX) (0.5 $\mu$ M). In a different set of experiments, electrical stimulation is applied to slices treated with Nefiracetam (1 $\mu$ M) in the presence and absence of $\alpha$ -bungarotoxin (50 nM) or mecamylamine (3 $\mu$ M). A 100 $\mu$ L aliquot of the medium filtered with millipore filters (0.45 $\mu$ M) is injected onto the cation-exchanger column of the autoanalyser to separate amino acids and the amount of glutamate released is calculated using known amino acid standard concentrations.

## Solubility Information

Solubility	H <sub>2</sub> O: 8.95 mg/L, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## A DRUG SCREENING EXPERT

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.351 mL	16.7549 mL	33.5098 mL
5 mM	0.6702 mL	3.351 mL	6.702 mL
10 mM	0.3351 mL	1.6755 mL	3.351 mL
50 mM	0.067 mL	0.3351 mL	0.6702 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Edgren RA. Steroids. 1994 Jan;59(1):58-9.

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**This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use**

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