

# Ethynyl Estradiol

Catalog No: tcsc2161



## Available Sizes

**Size:** 100mg

**Size:** 500mg



## Specifications

**CAS No:**

57-63-6

**Formula:**

$C_{20}H_{24}O_2$

**Pathway:**

Others;Metabolic Enzyme/Protease

**Target:**

Estrogen Receptor/ERR;Endogenous Metabolite

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 30$  mg/mL (101.21 mM)

**Alternative Names:**

17 $\alpha$ -Ethinylestradiol;Ethinylestradiol

**Observed Molecular Weight:**

296.4

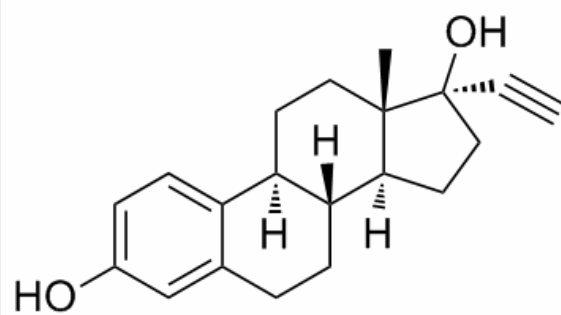
## Product Description

Ethynyl estradiol is an orally bio-active estrogen used in almost all modern formulations of combined oral contraceptive pills.

Target: Estrogen Receptor

Ethinyl estradiol (EE), also sometimes written as ethinylestradiol, ethynyl estradiol, or ethynyl estradiol, is a derivative of  $17\beta$ -estradiol (E2), the major endogenous estrogen in humans. EE is an orally bioactive estrogen used in many formulations of combined oral contraceptive pills. It is one of the most commonly used medications for this purpose. Transdermal ethinyl estradiol carries a greater risk of clot formation and venous thromboembolism than  $17\beta$  estradiol, which some have theorized to be related to different amounts of hepatic metabolism after absorption. The same contraindications and precautions apply for EE as with other estrogen medications.

Ethinyl was a preparation of EE alone that was used for the management of menopausal symptoms and female hypogonadism. EE is released into the environment as a xenoestrogen from the urine and feces of people who take it as a medication. The major concern with unopposed estrogen is of endometrial cancer. As such, the medication is generally prescribed with progesterone in the setting of birth control. The first orally active semisynthetic steroidal estrogen, EE ( $17\alpha$ -ethinylestradiol), the  $17\alpha$ -ethynyl analog of E2, was synthesized in 1938 by Hans Herloff Inhoffen and Walter Hohlweg at Schering AG in Berlin.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!