

Progesterone

Catalog No: tcsc1937



Available Sizes

Size: 100mg

Size: 1g

Size: 5g



Specifications

CAS No:

57-83-0

Formula:

$C_{21}H_{30}O_2$

Pathway:

Others;Metabolic Enzyme/Protease

Target:

Progesterone Receptor;Endogenous Metabolite

Purity / Grade:

>98%

Solubility:

DMSO : 50 mg/mL (159.00 mM; Need ultrasonic); H2O :

Alternative Names:

Pregn-4-ene-3,20-dione

Observed Molecular Weight:

314.46

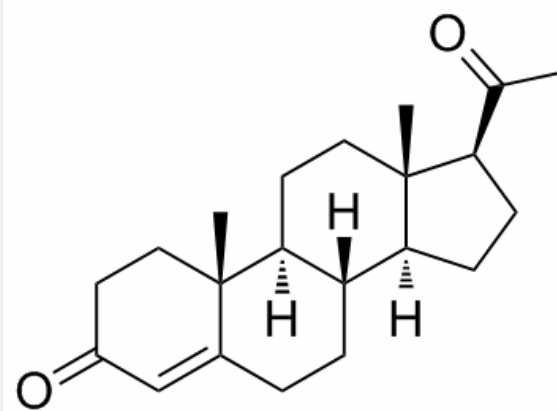
Product Description

Progesterone is a C-21 steroid hormone involved in the female menstrual cycle, pregnancy and embryogenesis of humans and other species.

Target: Progesterone receptor

Progesterone also known as P4 (pregn-4-ene-3,20-dione) is a C-21 steroid hormone involved in the female menstrual cycle, pregnancy (supports gestation) and embryogenesis of humans and other species. Progesterone belongs to a class of hormones called progestogens, and is the major naturally occurring human progestogen.

The route of administration impacts the effect of the drug. Given orally, progesterone has a wide person-to-person variability in absorption and bioavailability while synthetic progestins are rapidly absorbed with a longer half-life than progesterone and maintain stable levels in the blood. Progesterone does not dissolve in water and is poorly absorbed when taken orally unless micronized in oil. Products are often sold as capsules containing micronised progesterone in oil. Progesterone can also be administered through vaginal or rectal suppositories or pessaries, transdermally through a gel or cream, or via injection (though the latter has a short half-life requiring daily administration). Transdermal "natural progesterone" products made with Progesterone USP do not require a prescription. Some of these products also contain "wild yam extract" derived from *Dioscorea villosa*, but there is no evidence that the human body can convert its active ingredient (diosgenin, the plant steroid that is chemically converted to produce progesterone industrially) into progesterone.



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