



LKT Laboratories, Inc.

Gestrinone

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Product Information

Product ID G1975

CAS No. 16320-04-0

Chemical Name (17a)-13-Ethyl-17-hydroxy-18,19-dinorpregna-4,9,11-trien-20-yn-3-one

Synonym 13b-ethyl-17a-ethynyl-17b-hydroxy-4,9,11-gonatrien-3-one, 13b-ethyl-17a-ethynyl-D4,9,11-gonatriene-17b-ol-3-one, ethylnorgestrienone

Formula C₂₁H₂₄O₂

Formula Wt. 308.41

Melting Point 154°C

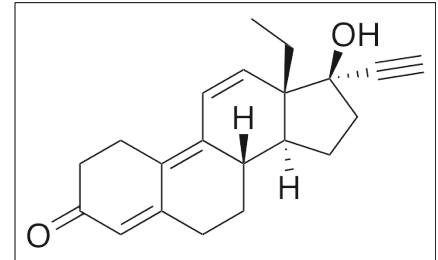
Purity ≥98%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Gestrinone is a synthetic anti-progestin hormone that acts as an antagonist at estrogen and progesterone receptors and as an agonist at androgen receptors. Gestrinone is primarily used to treat endometriosis in clinical settings; it is also in clinical trials for potential use as an emergency contraceptive. This compound also exhibits some potential anticancer activity as well, downregulating expression of the progesterone receptor, estrogen receptor, and p-Src, inhibiting growth of uterine leiomyoma cells.



Bulk quantities available upon request

Product ID	Size
G1975	25 mg
G1975	100 mg
G1975	500 mg

References Zhu Y, Zhang T, Xie S, et al. Gestrinone inhibits growth of human uterine leiomyoma may relate to activity regulation of ER α , Src and P38 MAPK. *Biomed Pharmacother.* 2012 Dec;66(8):569-77. PMID: 23102719.

Wu S, Dong J, Cong J, et al. Gestrinone compared with mifepristone for emergency contraception: a randomized controlled trial. *Obstet Gynecol.* 2010 Apr;115(4):740-4. PMID: 20308833.

Ohno Y, Kitagawa I, Tamura H, et al. Antiestrogenic effect of gestrinone as an inhibitor of [3H]-estradiol binding to nuclear type II sites. *Gynecol Obstet Invest.* 1991;31(2):97-101. PMID: 2037266.

Venturini PL, Bertolini S, Brunenghi MC, et al. Endocrine, metabolic, and clinical effects of gestrinone in women with endometriosis. *Fertil Steril.* 1989 Oct;52(4):589-95. PMID: 2806598.

Tamaya T, Fujimoto J, Watanabe Y, et al. Gestrinone (R2323) binding to steroid receptors in human uterine endometrial cytosol. *Acta Obstet Gynecol Scand.* 1986;65(5):439-41. PMID: 3490730.

Kaupilla A, Isomaa V, Rönberg L, et al. Effect of gestrinone in endometriosis tissue and endometrium. *Fertil Steril.* 1985 Oct;44(4):466-70. PMID: 2996949.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.