



LKT Laboratories, Inc.

Quinestrol

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Product Information

Product ID Q8135

CAS No. 152-43-2

Chemical Name

Synonym Eston, Estrovis, Plestrovis

Formula $C_{25}H_{32}O_2$

Formula Wt. 364.52

Melting Point 107-108°C

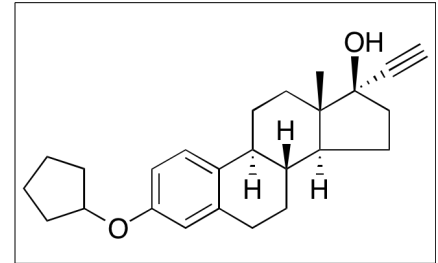
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Quinestrol is a synthetic estrogen homolog that exhibits anti-fertility and contraceptive activities. Quinestrol is an ER agonist and is also used in HRT. Quinestrol displays clinical benefit in improving symptoms of postmenopausal syndrome. In males, quinestrol decreases the weight of the testis, epididymis, seminal vesicle, and prostate, decreases sperm count, and decreases levels of testosterone, luteinizing hormone (LH), and follicle-stimulating hormone (FSH). In females, quinestrol decreases levels of follicle-stimulating hormone (FSH) and luteinizing hormone (LH), increases levels of progesterone and estradiol, and alters estrogen receptor expression. Quinestrol increases oxidative stress by decreasing activity of superoxide dismutase (SOD) and glutathione peroxidase and increasing levels of NO and malondialdehyde. In other animal models, this compound inhibits investigative reproductive behavior.



Bulk quantities available upon request

Product ID	Size
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Q8135	100 mg
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Q8135	250 mg
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Q8135	1 g
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References Li J, Wang H, Zhang J, et al. Abnormal secretion of reproductive hormones and antioxidant status involved in quinestrol-induced reproductive toxicity in adult male rat. *Tissue Cell*. 2013 Oct 1. pii: S0040-8166(13)00081-5. PMID: 24183492.

Liu Q, Qin J, Chen Q, et al. Fertility control of *Rattus nitidus* using quinestrol: effects on reproductive organs and social behavior. *Integr Zool*. 2013 Apr;8 Suppl 1:9-17. PMID: 23621467.

Lv X, Guo Y, Shi D. Effects of quinestrol on reproductive hormone expression, secretion, and receptor levels in female Mongolian gerbils (*Meriones unguiculatus*). *Theriogenology*. 2012 Apr 1;77(6):1223-31. PMID: 22284225.

Jaschevatzky OE, Anderman S, Shalit A, et al. The treatment of postmenopausal syndrome by monthly oral doses of quinestrol. *Acta Obstet Gynecol Scand*. 1979;58(2):175-8. PMID: 452871.

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