



LKT Laboratories, Inc.

Coumestrol

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Product Information

Product ID C5680

CAS No. 479-13-0

Chemical Name 3,9-Dihydroxy-6H-benzofuro[3,2-c][1]benzopyran-6-one

Synonym Cumoesterol, Cumoestrol, Cumostrol

Formula C₁₅H₈O₅

Formula Wt. 268.2

Melting Point 385°C

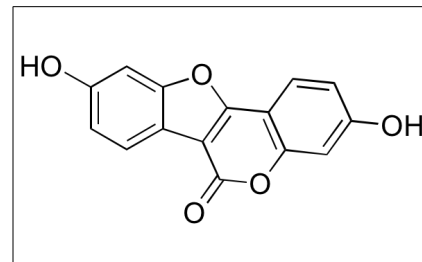
Purity ≥96%

Solubility Insoluble in water. Slightly soluble in methanol, ethanol or chloroform.

Store Temp Ambient

Ship Temp Ambient

Description Coumestrol is a phytoestrogen found in various plant sources such as soy, spinach, and clover; it exhibits estrogenic, anti-inflammatory, immunomodulatory, anti-osteoporotic, and antidepressant activities. Coumestrol acts as an agonist at ERβ and inhibits aromatase and 3α-hydroxysteroid dehydrogenase. Coumestrol decreases immobility in animals undergoing the forced swim test. Additionally, this compound decreases levels of TNF-α, IL-1β, IL-6, and RANKL, limits T cell differentiation and activation, and suppresses formation of osteoclasts in vitro. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
C5680	10 mg	\$198.50
C5680	25 mg	\$330.80

References Kariab S, Fox SW. Suppression of T cell-induced osteoclast formation. *Biochem Biophys Res Commun*. 2013 Jul 12;436(4):619-24. PMID: 23764400.

Blomquist CH, Lima PH, Hotchkiss JR. Inhibition of 3α-hydroxysteroid dehydrogenase (3α-HSD) activity of human lung microsomes by genistein, daidzein, coumestrol and C(18)-, C(19)- and C(21)-hydroxysteroids and ketosteroids. *Steroids*. 2005 Jul;70(8):507-14. PMID: 15894034.

Walf AA, Rhodes ME, Frye CA. Antidepressant effects of ERβ-selective estrogen receptor modulators in the forced swim test. *Pharmacol Biochem Behav*. 2004 Jul;78(3):523-9. PMID: 15251261.

Kuiper GG, Lemmen JG, Carlsson B, et al. Interaction of estrogenic chemicals and phytoestrogens with estrogen receptor beta. *Endocrinology*. 1998 Oct;139(10):4252-63. PMID: 9751507.

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