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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

ethanol or chloroform.

Formula C<sub>15</sub>H<sub>8</sub>O<sub>5</sub> Formula Wt. 268.2 Melting Point 385°C Purity ≥96% Solubility Insoluble in water. Slightly soluble in methanol,

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, antiinflammatory, immunomodulatory, anti-osteoporotic, and antidepressant activities. Coumestrol acts as an agonist at ERB 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-1B, IL-6, and RANKL, limits T cell differentiation and activation, and suppresses formation of osteoclasts in vitro.

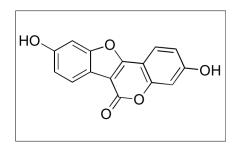
References Karieb S, Fox SW. Suppression of T cell-induced osteoclast formation. Biochem Biophys Res Commun. 2013 Jul 12;436(4):619 -24. PMID: 23764400.

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

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



## Bulk quanitites available upon request

Product ID	Size
C5680	10 mg
C5680	25 mg