

PubMed

antiestrogenic activities of cimicifuga racemosa 2002 zierau



Display Settings: Abstract

Full text links

J Steroid Biochem Mol Biol. 2002 Jan;80(1):125-30.



Antiestrogenic activities of Cimicifuga racemosa extracts.

Zierau O¹, Bodinet C, Kolba S, Wulf M, Vollmer G.

Author information

Abstract

Despite the wide use of extracts from the rhizome of black cohosh (**Cimicifuga racemosa**) for the treatment of menopausal complaints, surprisingly little is known on their potential estrogenic properties, e.g. on **estrogen** dependent gene transcription. In addition, available informations on the effects on cell proliferation are contradictory. We therefore, tested for estrogenic and **antiestrogenic** effects of **Cimicifuga racemosa** extracts on proliferation of MCF-7 cells and on gene expression using ethanolic and iso-propanolic extracts of this medical plant. Estrogenic properties of plant extracts could neither be detected in proliferation assays, nor on gene expression using an estradiol-inducible yeast assay or the **estrogen**-inducible MVLN cells. In contrast, in all three experimental systems **Cimicifuga racemosa** antagonized estradiol induced **activities**. Estradiol induced stimulation of proliferation was inhibited by a dosage >1 microg/ml of extract concentration, gene expression was suppressed by doses of 100-1000 microg/ml of **Cimicifuga racemosa** extracts. From these results we conclude, that extracts from the rhizome of **Cimicifuga racemosa** contain compounds with **antiestrogenic** properties.

PMID: 11867271 [PubMed - indexed for MEDLINE]

MeSH Terms, Substances

LinkOut - more resources

PubMed Commons

[PubMed Commons home](#)

0 comments

[How to join PubMed Commons](#)