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Chlorotrianisene

National Cancer Institute

Source

National Cancer Institute. *Chlorotrianisene*. NCI Thesaurus. Code C65320.

An orally bioavailable, highly lipophilic, synthetic triphenylethylene (TPE) derivative and selective estrogen receptor modulator (SERM), with predominantly estrogenic but also antiestrogenic activities. Upon administration, chlorotrianisene binds to estrogen receptors (ER) and, depending on the responsive target cells, either activates or blocks ER activity. This modulates the expression of ER-responsive genes in a tissue-specific manner. This agent may increase bone mineral density, modify the lipid profile and ameliorate vasomotor symptoms. Chlorotrianisene inhibits the pituitary secretion of the gonadotropins luteinizing hormone (LH) and follicle-stimulating hormone (FSH) through a negative feedback mechanism.