

[Open Peer Review on Qeios](#)

# Triphenylethylene

National Cancer Institute

## Source

National Cancer Institute. *Triphenylethylene*. NCI Thesaurus. Code C29863.

the core chemical structure of a number of related anti-estrogen compounds. The triphenylethylene antiestrogens, which include idoxifene, toremifene, chlorotrianisene, raloxifene and tamoxifen, act at the level of the estrogen receptor, triggering inhibition or stimulation of estrogen-dependent gene transcription and cellular physiology.

Triphenylethylenes were initially developed for the treatment of estrogen-dependent breast cancers. Selective estrogen receptor modulators (SERMs) such as raloxifene and tamoxifen represent triphenylethylene derivatives that affect transcriptional regulation through modulation of specific alpha and beta estrogen receptors that are differentially expressed in various normal and neoplastic tissues. (NCI04)