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Bazedoxifene

National Cancer Institute

Source

National Cancer Institute. *Bazedoxifene*. NCI Thesaurus. Code C73598.

An indole derivative and third-generation selective estrogen receptor modulator (SERM) with potential antineoplastic activity. Upon administration, bazedoxifene specifically binds to estrogen receptors in responsive tissues, including liver, bone, breast, and endometrium. The resulting ligand-receptor complex is translocated to the nucleus where, depending on the tissue type, it either promotes or suppresses the transcription of estrogen-regulated genes. Bazedoxifene acts as an estrogen antagonist in uterine and breast tissue, thereby blocking the proliferative effects of estrogen-binding to ER-positive cells in these tissues. Bazedoxifene functions as an estrogen agonist in lipid metabolism, thereby decreasing total and LDL cholesterol levels. In bone, it decreases bone resorption and bone turnover and increases bone mineral density.