

The present invention relates to methods and uses for inducing apoptosis in a cell, in particular a breast cancer cell, by the administration of antiprogestins, in particular the antiprogestin  $11\beta-(4\text{-acetylphenyl})-17\beta\text{-hydroxy}-17\alpha-(1,1,2,2,2\text{-pentafluoroethyl})\text{-estra}-4,9\text{-dien}-3\text{-one}$  or a pharmaceutically acceptable derivative or analogue thereof. The invention further relates to a treatment of cancer wherein an indicator of high risk is an increased amount of tumor cells in the S-phase of the cell cycle, said treatment comprising an antiprogestin, in particular the antiprogestin  $11\beta-(4\text{-acetylphenyl})-17\beta\text{-hydroxy}-17\alpha-(1,1,2,2,2\text{-pentafluoroethyl})\text{-estra}-4,9\text{-dien}-3\text{-one}$  or a pharmaceutically acceptable derivative or analogue thereof.