

NOVEL COMPOUNDS, PHARMACEUTICAL COMPOSITIONS CONTAINING SAME, AND METHODS OF USE FOR SAME

Abstract

A pharmaceutical composition comprising a pharmaceutical diluent and a compound of formula IV wherein R^{21} = H, C_1 - C_{20} alkyl, cycloalkyl, alkenyl, aryl, arylalkyl, or alkylaryl, $-CH_2OR^{25}$, $-C(O)R^{25}$, $-CO(O)R^{25}$, $-C(O)NR^{25}R^{26}$, $-CH_2C(O)R^{25}$, or $-CH^2C(O)NHR^{25}$, where R^{25} and R^{26} are each independently H, C_1 - C_{10} alkyl, cycloalkyl, alkenyl, aryl, arylalkyl, or alkylaryl, optionally containing one or more halogen atoms. R^{22} = $-OH$, $-OR^{27}$, $-OCH_2C(O)R^{27}$, $-OCH_2C(O)NHR^{27}$, $-OC(O)R^{27}$, $-OC(O)OR^{27}$, $-OC(O)NHNH-R^5$, or $-OC(O)NR^{27}R^{28}$, where R^{27} and R^{28} are each independently H, C_1 - C_{20} alkyl, cycloalkyl, alkenyl, aryl, arylalkyl, or alkylaryl, and where R^{27} and R^{28} can each optionally contain halogen atoms; R^{23} and R^{24} , the same or different from each other, are C_1 - C_{20} alkyl, cycloalkyl, alkenyl, aryl, arylalkyl, or alkylaryl. Methods of using such formulations for the treatment of cancer, to effect weight loss, to treat microbially-based infections, to inhibit neuropeptide-Y and/or fatty acid synthase, and to stimulate CPT-1.

