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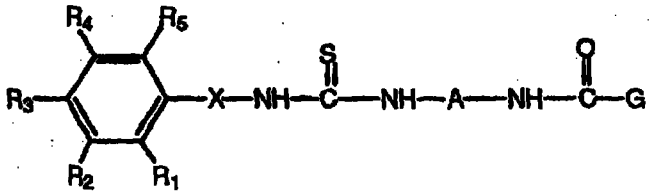
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(54) Title: THIOUREA INHIBITORS OF HERPES VIRUSES



(1)

(57) Abstract

Compounds of formula (1) wherein, R_1–R_5 are independently selected from hydrogen, alkyl of 1 to 6 carbon atoms, alkenyl of 2 to 6 carbon atoms, alkynyl of 2 to 6 carbon atoms, perhaloalkyl of 1 to 6 carbon atoms, cycloalkyl of 3 to 10 carbon atoms, heterocycloalkyl of 3 to 10 carbon members, aryl, heteroaryl, halogen, –CN, $-NO_2$, $-CO_2R_6$,–COR_6, $-OR_6$, $-SR_6$, $-SOR_6$, $-SO_2R_6$, $-CONR_7R_8$, $-NR_6N(R_7R_8)$, $-N(R_7R_8)$ or W–Y–$(CH_2)_n$–Z; or R_2 and R_3 or R_3 and R_4, taken together from a 3 to 7 membered heterocycloalkyl or 3 to 7 membered heteroaryl; R_6 and R_7 are independently hydrogen, alkyl of 1 to 6 carbon atoms, perhaloalkyl of 1 to 6 carbon atoms, or aryl; R_8 is hydrogen, alkyl of 1 to 6 carbon atoms, perhaloalkyl of 1 to 6 carbon atoms, cycloalkyl of 3 to 10 carbon atoms, heterocycloalkyl of 3 to 10 members, aryl or heteroaryl, or R_7 and R_8, taken together may form a 3 to 7 membered heterocycloalkyl; A is heteroaryl; W is O, NR_6, or is absent; Y is –(CO)– or $-(CO_2)$–, or is absent; Z is alkyl of 1 to 4 carbon atoms, –CN, $-CO_2R_6$, COR_6, $-CONR_7R_8$, $-OCOR_6$, $-NR_6COR_7$, $-OCONR_6$, $-OR_6$, $-SR_6$, $-SOR_6$, $-SO_2R_6$, SR6N(R7R8), $-N(R_7R_8)$ or phenyl; G is aryl or heteroaryl; X is a bond, –NH, alkyl of 1 to 6 carbon atoms, alkenyl of 1 to 6 carbon atoms, alkoxy of 1 to 6 carbon atoms, thioalkyl of 1 to 6 carbon atoms, alkylamino of 1 to 6 carbon atoms, or (CH)J; J is alkyl of 1 to 6 carbon atoms, cycloalkyl of 3 to 7 carbon atoms, phenyl or benzyl; and n is an integer from 1 to 6; useful in the treatment of diseases associated with herpes viruses including human cytomegalovirus, herpes simplex viruses, Epstein–Barr virus, varicella–zoster virus, human herpes viruses –6 and –7, and Kaposi herpesvirus.