ABSTRACT

Hepatitis C Virus Polymerase Inhibitors With A Heterobicyclic Structure

An isomer, enantiomer, diastereoisomer or tautomer of a compound, represented by formula I: wherein: A is O, S, NR^1, or CR^1, wherein R^1 is defined herein; represents either a single or a double bond; R^2 is selected from: H, halogen, R^{21}, OR^{21}, SR^{21}, $COOR^{21}$, $SO_2N(R^{22})_2$, $N(R^{22})_2$, $CON(R^{22})_2$, $NR^{22}C(O)R^{22}$ or $NR^{22}C(O)NR^{22}$ wherein R^{21} and each R^{22} is defined herein; B is NR^3 or CR^3, with the proviso that one of A or B is either CR^1 or CR^3, wherein R^3 is defined herein; K is N or CR^4, wherein R^4 is defined herein; L is N or CR^5, wherein R^5 has the same definition as R^4; M is N or CR^7, wherein R^7 has the same definition as R^4; Y^1 is O or S; Z is $N(R^{6a})R^6$ or OR^6, wherein R^{6a} is H or alkyl or $NR^{61}R^{62}$ wherein R^{61} and R^{62} are defined herein; and R^6 is H, alkyl, cycloalkyl, alkenyl, Het, alkyl-aryl, alkyl-Het; or R^6 is wherein R^7 and R^8 and Q are as defined herein; Y^2 is O or S; R^9 is H, (C_{1-6} alkyl), (C_{3-7})cycloalkyl or (C_{1-6})alkyl-(C_{3-7})cycloalkyl, aryl, Het, (C_{1-6})alkyl-aryl or (C_{1-6})alkyl-Het, all of which optionally substituted with R^{90}; or R^9 is covalently bonded to either of R^7 or R^8 to form a 5- or 6-membered heterocycle; a salt or a derivative thereof, as an inhibitor of HCV NS5B polymerase.