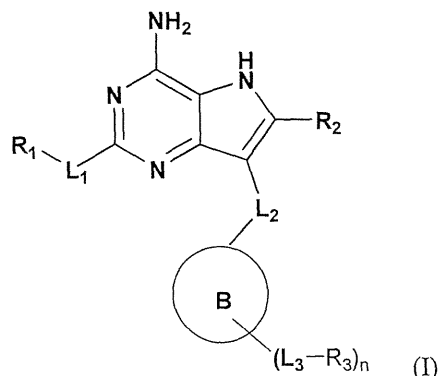


Claims

1. A compound of formula (I) or a pharmaceutically acceptable salt thereof



wherein

L_1 is -O-;

L_2 is selected from the group consisting of -O-, -CH₂-, -S-, -NH-, -NHC(=O)-, -C(=O)-, -C(=O)NH-, -S(=O)-, -S(=O)₂-, -NHS(=O)₂- and -S(=O)₂NH-, wherein the above groups are optionally substituted by one or more R_4 ;

R_1 is selected from the group consisting of hydrogen, C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl, C₃₋₁₀ cyclohydrocarbyl, 3-10 membered heterocyclohydrocarbyl, aryl and heteroaryl, wherein the above C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl, C₃₋₁₀ cyclohydrocarbyl, 3-10 membered heterocyclohydrocarbyl, aryl and heteroaryl are optionally substituted by one or more R_4 ;

R_2 is selected from the group consisting of hydrogen, halogen, cyano, hydroxyl, thiol, amino, COOH, -CONH₂, C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl, C₃₋₁₀ cyclohydrocarbyl, 3-10 membered heterocyclohydrocarbyl, aryl and heteroaryl, wherein the above hydroxyl, thiol, amino, COOH, -CONH₂, C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl, C₃₋₁₀ cyclohydrocarbyl, 3-10 membered heterocyclohydrocarbyl, aryl and heteroaryl are optionally substituted by one or more R_4 ;

B is selected from the group consisting of C₃₋₁₀ cyclohydrocarbyl, 3-10 membered heterocyclohydrocarbyl, aryl and heteroaryl;

L_3 is selected from the group consisting of C₀₋₆ alkylene, imino, -O-, -S-, -S(=O)- and -S(=O)₂-, wherein the above C₀₋₆ alkylene and imino are optionally substituted by one or more R_4 ;

R_3 is selected from the group consisting of hydrogen, amino, C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl, C₃₋₁₀ cyclohydrocarbyl, 3-10 membered heterocyclohydrocarbyl, aryl and heteroaryl, wherein the above amino, C₁₋₁₀ alkyl, C₂₋₁₀ alkenyl, C₂₋₁₀ alkynyl, C₃₋₁₀ cyclohydrocarbyl, 3-10 membered heterocyclohydrocarbyl, aryl and heteroaryl are optionally substituted by one or more R_4 ; or

R_3 and L_3 together with the adjacent atom at the ring B form a saturated or unsaturated 5-8 membered ring, the 5-8 membered ring is optionally substituted by one or more R_4 ;

n is 0, 1, 2, 3, 4 or 5;

R_4 is selected from the group consisting of halogen, cyano, -R, -OR, =O, -SR, -NR₂, =NR, -C(halogen)₃, -CR(halogen)₂, -CR₂(halogen), -OCN, -SCN, -N=C=O, -NCS, -NO, -NO₂, -NRC(=O)R, -NRC(=O)OR, -NRC(=O)NRR, -C(=O)NRR, -C(=O)OR, -OC(=O)NRR, -OC(=O)OR, -C(=O)R, -S(=O)₂OR, -S(=O)₂R, -OS(=O)₂OR, -S(=O)₂NRR, -S(=O)R, -NRS(=O)₂R, -NRS(=O)₂NRR, -NRS(=O)₂OR, -OP(=O)(OR)₂,

-P(=O)(OR)₂, -C(=O)R, -C(=S)R, -C(=O)OR, -C(=S)OR, -C(=O)SR, -C(=S)SR, -C(=O)NRR, -C(=S)NRR, -C(=NR)NRR and -NRC(=NR)NRR; R is independently selected from the group consisting of H, C₁₋₈ alkyl, C₃₋₈ cyclohydrocarbyl, 3-8 membered heterocyclohydrocarbyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl.

2. The compound according to claim 1, characterized in that, L₁ is -O-; and

L₂ is selected from the group consisting of -O-, -CH₂-, -S-, -NH-, -C(=O)-, -S(=O)- and -S(=O)₂-, wherein the above -CH₂- and -NH- are optionally substituted by one or more R₄.

3. The compound according to claim 2, characterized in that, L₁ is -O-; and

L₂ is selected from the group consisting of -O- and -CH₂-, wherein the above -CH₂- is optionally substituted by one or more R₄.

4. The compound according to claim 1, characterized in that, R₁ is selected from the group consisting of hydrogen, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₆ cyclohydrocarbyl, 3-6 membered heterocyclohydrocarbyl, aryl and heteroaryl, wherein the above C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₆ cyclohydrocarbyl, 3-6 membered heterocyclohydrocarbyl, aryl and heteroaryl are optionally substituted by one or more R₄.

5. The compound according to claim 4, characterized in that, R₁ is selected from the group consisting of C₁₋₆ alkyl, wherein the above C₁₋₆ alkyl is optionally substituted by one or more R₄.

6. The compound according to claim 1, characterized in that, R₂ is selected from the group consisting of hydrogen, halogen, cyano, hydroxyl, amino, -CONH₂ and C₁₋₆ alkyl, wherein the above hydroxyl, amino, -CONH₂ and C₁₋₆ alkyl are optionally substituted by one or more R₄.

7. The compound according to claim 6, characterized in that, R₂ is selected from the group consisting of hydrogen, cyano and -CONH₂, wherein the above -CONH₂ is optionally substituted by one or more R₄.

8. The compound according to claim 1, characterized in that, B is selected from the group consisting of aryl and heteroaryl.

9. The compound according to claim 8, characterized in that, B is selected from the group consisting of phenyl and pyridyl.

10. The compound according to claim 1, characterized in that, L₃ is selected from the group consisting of C₀₋₆ alkylene, wherein the above C₀₋₆ alkylene is optionally substituted by one or more R₄.